#530

CAMBRIA

April 22, 1999

Barney Chan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Fourth Quarter 1998 Monitoring Report**
Shell-branded Service Station
285 Hegenberger Road
Oakland, California
Incident# 98995749
Cambria Project# 24-314-498

Dear Mr. Chan:

On behalf of Equiva Services LLC, Cambria Environmental Technology, Inc. (Cambria) is submitting this ground water monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

HYDROCARBON REMOVAL SUMMARY

Hydrocarbon Removal	Cumulative (lbs)
Vapor-Phase	707
Total	707

The table above summarizes the historical vapor-phase hydrocarbons removal by soil vapor extraction (SVE). Soil vapor extraction operation was discontinued on February 9, 1995.

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

Cambria Environmental Technology, Inc.

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

FOURTH QUARTER 1998 ACTIVITIES

Ground Water Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California collected dissolved oxygen (DO) measurements, gauged water levels, and sampled all wells. Blaine calculated ground water elevations and compiled the gasoline constituents analytical data. Cambria compiled the non-gasoline constituents analytical data (Table 1) and prepared a ground water elevation contour map (Figure 1). The Blaine report, presenting the laboratory report, is included as Attachment A.

Alameda County Health Care Services Agency (ACHCSA) Letter Response: Cambria submitted a *Letter Response and Work Plan* dated February 4, 1999 in response to the ACHCSA letter to Shell Oil Products Company dated December 3, 1998. The work plan was conditionally approved by the ACHCSA in a February 11, 1999 letter.

ANTICIPATED FUTURE ACTIVITIES

Ground Water Monitoring: The next sampling event is scheduled for the second quarter of 1999. At that time, Blaine will collect DO measurements, gauge water levels, sample selected site wells and tabulate the data. Cambria will prepare a monitoring report.

Soil and Ground Water Investigation: On March 18, 1999, Cambria conducted the soil and ground water investigation proposed in the February 4, 1999 work plan. The objective of the investigation was to evaluate the migration of petroleum hydrocarbons and MTBE in conduit trenches towards the open channel located southwest of the site. Results of the investigation will be reported in a forthcoming report.

Bio-Sparge System Installation: As proposed in Cambria's February 4, 1999 work plan, Cambria will install a low flow air compressor that will inject filtered air through diffusers into wells VEW-1, VEW-2, VEW-3 and VEW-4. We will perform initial startup testing of the system and adjust the system pressure in each well to allow an approximate air flow of 1-2 cfm per well. Cambria is currently preparing design drawings necessary to obtain building permits for the installation of the proposed bio-sparge system.

Vapor Extraction Test (VET): Cambria proposed conducting a five day soil VET to evaluate current vadose zone vapor concentrations and determine the effectiveness of restarting an SVE system. Cambria will conduct the VET in late summer of 1999, when ground water levels are the lowest. Results of the VET will be reported in a forthcoming report.

CLOSING

We appreciate the opportunity to work with you on this project. Please call Darryk Ataide at (510) 420-3339 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Darryk Ataide, REA I
Project Manager

Ailsa S. Le May, R.G.
Senior Geologist

REGISTERED GEOLOGIST
AILSA S. LE MAY
NO. 6717
STATE OF CALIFORNIA

Figure 1: Ground Water Elevation Contour Map
Table1: Ground Water Analytical Data – Other Constituents
Attachment: A - Blaine Ground Water Monitoring Report

cc: Ms. Karen Petryna, Equiva Services LLC, P.O. Box 6249, Carson, California 90749
Mr. Jim Michalak, Equilon Enterprises LLC, One Shell Plaza, Room 4822, 900 Louisiana, Houston, Texas 77001
Mr. H. Brad Boschetto, Equiva Services LLC, Carson Distributing Plant, P.O. Box 6249, Carson, CA 90749-6249
Steven Hill, RWQCB – SFBR, 1515 Clay Street, Suite 1400, Oakland, CA 94604
Ms. Terry O'Rourke, Port of Oakland, 530 Water Street, Oakland, CA 94604

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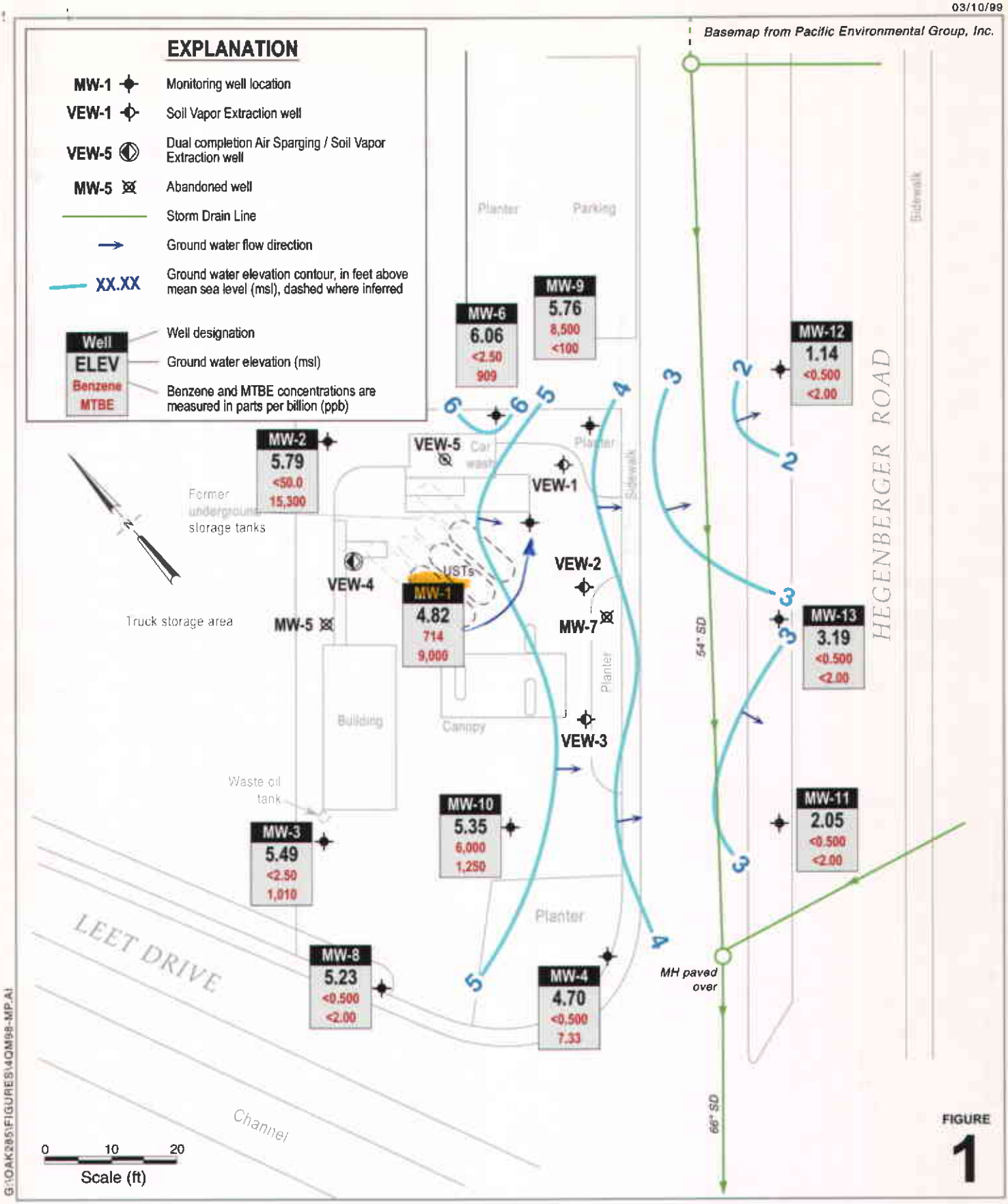

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FIGURE 1

Shell-branded Service Station

285 Hegenberger Road
Oakland, California
Incident #98995749

CAMBRIA

Ground Water Elevation Contour Map

December 30, 1998

Table 1. **Ground Water Analytical Data - Other Constituents** - Shell-branded Service Station - Incident #98995749, 285 Hegenberger Road, Oakland, California

Well ID	Date	Motor Oil	Nitrate as Nitrate	Sulfate	Ferrous Iron	DO	ORP (millivolts)
		← (Concentrations in mg/L) →					
MW-1	06/10/98	---	<1.0	3.3	14	0.5/0.5	-163/-178
	06/10/98[dup]	---	<1.0	5.1	14	0.5/0.5	-163/-178
	12/30/98	**<0.250**	**<1.0**	**6.8**	**9.2**	**1.6/1.4**	**-119/-107**

MW-2	06/10/98	---	<1.0	47	5.1	0.7/0.6	-155/-161
	12/30/98	**<0.250**	**<1.0**	**84**	**7.6**	**1.3/1.2**	**-96/-107**

MW-3	06/10/98	---	<1.0	15	3.5	0.8/0.9	-101/-149
	12/30/98	**<0.250**	**<1.0**	**21**	**2.1**	**1.3/1.4**	**-84/-76**

MW-4	**12/30/98**	**<0.250**	**<1.0**	**9.6**	**1.6**	**1.7/1.6**	**-118/-111**

MW-6	06/10/98	---	<1.0	7.4	1.8	0.4/0.4	-159/-155
	12/30/98	**<0.250**	**<1.0**	**120**	**0.46**	**2.1/1.6**	**-98/-107**

MW-8	**12/30/98**	**<0.250**	**12**	**54**	**0.031**	**0.8/0.9**	**-128/-121**

MW-9	06/10/98	---	<1.0	6.6	21	0.3/0.4	-169/-188
	12/30/98	**<0.250**	**<1.0**	**6.4**	**9.3**	**1.1/1.2**	**-107/-111**

MW-10	06/10/98	---	<1.0	6.3	17	0.7/0.5	-149/-162
	12/30/98	**<0.250**	**<1.0**	**8.0**	**17**	**1.0/0.7**	**-72/-89**

MW-11	**12/30/98**	**<0.250**	**<1.0**	**1,000**	**0.21**	**0.7/0.6**	**-86/-74**

MW-12	**12/30/98**	**<0.250**	**6.1**	**1,500**	**0.06**	**1.3/0.9**	**-119/-106**

MW-13	**12/30/98**	**<0.250**	**7.2**	**230**	**0.031**	**1.1/0.8**	**-111/-104**

Abbreviations:

ft = Feet
mg/L = Milligrams per liter
DO = Dissolved oxygen, reported as pre-purge/post-purge
ORP = Oxidation reduction potential, reported as pre-purge/post-purge
dup = Duplicate sample

Notes:

--- = Not analyzed
<n = Below detection limit of n mg/L
Ferrous iron by EPA Method 200.7
Nitrate as nitrate and sulfate by EPA Method 300.0

ATTACHMENT A

Blaine Ground Water Monitoring Report

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112
(408) 573-7771 FAX
(408) 573-0555 PHONE

February 24, 1999

Karen Petryna
Equiva Services LLC
P.O. Box 6249
Carson, CA 90749-6249

Fourth Quarter 1998 Groundwater Monitoring at
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA

Monitoring performed on December 30, 1998

Groundwater Monitoring Report **981230-Y-3**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, apprioriate calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an

independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. concentrates on objective data collection and does not participate in the interpretation of analytical results, the definition of geological or hydrological conditions, the formulation of recommendations, or the marketing of remedial systems.

Please call if you have any questions.

Yours truly,

Deidre Kerwin
Operations Manager

DK/ld

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Anni Kreml
Cambria Environmental Technology, Inc.
1144 65th Street, Ste. C
Oakland, CA 94608-2411

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA
Wic #204-5508-5504

Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	02/16/1989	99,000	NA	20,000	23,000	5,700	2,300	NA	NA	6.64	3.83	2.81	NA
MW-1	05/23/1989	48,000	11,000	4,200	5,200	1,200	7,700	NA	NA	6.64	3.59	3.05	NA
MW-1	08/03/1989	63,000	11,000	5,500	5,500	3,200	9,500	NA	NA	6.64	4.04	2.60	NA
MW-1	12/15/1989	30,000	11,000	ND	ND	ND	ND	NA	NA	6.64	4.22	2.42	NA
MW-1	02/07/1990	93,000	10,000	13,000	9,600	2,400	14,000	NA	NA	6.64	4.60	2.04	NA
MW-1	04/18/1990	55,000	8,700	14,000	8,400	3,200	13,000	NA	NA	6.64	4.02	2.62	NA
MW-1	07/23/1990	73,000	3,600	16,000	7,400	2,800	15,000	NA	NA	6.64	4.17	2.47	NA
MW-1	09/27/1990	45,000	1,700	8,000	4,300	2,000	11,000	NA	NA	6.64	4.60	2.04	NA
MW-1	01/03/1991	43,000	3,100	10,000	3,400	1,900	11,000	NA	NA	6.64	4.88	1.76	NA
MW-1	04/10/1991	67,000	1,800	20,000	9,600	3,500	16,000	NA	NA	6.64	3.55	3.09	NA
MW-1	07/12/1991	NA	NA	NA	NA	NA	NA	NA	NA	6.64	3.97	2.67	NA
MW-1	10/08/1991	55,000	7,400	18,000	3,500	2,300	8,600	NA	NA	6.64	4.26	2.38	NA
MW-1	02/06/1992	48,000	15,000a	12,000	2,800	1,900	7,400	NA	NA	6.64	4.94	1.70	NA
MW-1	05/04/1992	71,000	10,000a	16,000	6,000	3,100	14,000	NA	NA	6.64	3.58	3.06	NA
MW-1	07/28/1992	68,000	18,000a	21,000	5,500	3,400	15,000	NA	NA	6.64	3.91	2.73	NA
MW-1 (D)	07/28/1992	70,000	19,000a	17,000	5,000	2,700	13,000	NA	NA	6.64	3.91	2.73	NA
MW-1	10/27/1992	53,000	1,300	18,000	3,700	3,400	11,000	NA	NA	6.64	4.79	1.85	NA
MW-1 (D)	10/27/1992	48,000	2,500a	17,000	3,600	3,100	9,900	NA	NA	6.64	4.79	1.85	NA
MW-1	01/14/1993	84,000	2,200a	17,000	5,400	3,000	13,000	NA	NA	6.64	3.39	3.25	NA
MW-1	04/23/1993	100,000	2,300a	18,000	7,800	4,700	20,000	NA	NA	6.64	2.67	3.97	NA
MW-1	07/20/1993	41a	3,100a	12,000	870	1,500	4,400	NA	NA	9.50	3.48	6.02	NA
MW-1	10/18/1993	33,000	8,100a	14,000	1,200	2,000	4,900	NA	NA	9.50	4.20	5.30	NA
MW-1 (D)	10/18/1993	44,000	3,700a	14,000	1,200	2,000	4,900	NA	NA	9.50	4.20	5.30	NA
MW-1	01/06/1994	71,000	9,000a	9,000	870	1,600	5,100	NA	NA	9.50	4.13	5.37	NA
MW-1	04/12/1994	42,000	5,900	6,600	170	2,300	4,700	NA	NA	9.50	2.42	7.08	NA
MW-1 (D)	04/12/1994	40,000	4,700	6,300	180	2,000	4,400	NA	NA	9.50	2.42	7.08	NA
MW-1	07/25/1994	13,000	7,000a	4,400	110	460	1,400	NA	NA	9.50	3.37	6.13	NA
MW-1	10/25/1994	19,000	3,900	5,500	210	880	2,000	NA	NA	9.50	4.07	5.43	NA
MW-1	01/09/1995	37,000	8,600a	6,700	800	2,800	8,900	NA	NA	9.50	2.65	6.85	NA
MW-1	04/11/1995	26,000	5,500	4,700	270	1,800	3,400	NA	NA	9.50	2.38	7.12	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA
Wic #204-5508-5504

Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-1	07/18/1995	57,000	7,000	7,500	880	4,100	11,000	NA	NA	9.50	3.49	6.01	NA
MW-1 (D)	07/19/1995	46,000	6,600	6,000	670	3,200	7,500	NA	NA	9.50	3.49	6.01	NA
MW-1	10/18/95b	37,000	3,200	5,400	450	2,600	7,400	10,000	NA	9.50	NA	NA	NA
MW-1	01/09/1996	32,000	NA	3,000	240	1,900	3,500	6,100	NA	9.50	2.95	6.55	NA
MW-1	04/02/1996	30,000	NA	3,100	260	2.0	3,900	8.0	NA	9.50	2.00	7.50	NA
MW-1	10/03/1996	18,000	2,800	3,000	120	1,200	1,700	7,500	NA	9.50	3.21	6.29	2.2
MW-1	04/03/1997	29,000	3,000	2,300	170	2,300	2,900	4,300	NA	9.50	2.84	6.66	2.2
MW-1	10/08/1997	22,000	3,600	920	71	2,400	2,200	820	NA	9.50	2.58	6.92	1.5
MW-1	06/10/1998	13,000	2,900	860	<100	1,300	500	29,000	32,000	9.50	2.67	6.83	0.5/0.5
MW-1 (D)	06/10/1998	9,400	2,100	870	<50	1,300	520	28,000	NA	9.50	2.67	6.83	0.5/0.5
MW-1	12/30/1998	6,930	1,540	714	52.7	243	<25.0	9,000	NA	9.50	4.68	4.82	1.6/1.4
MW-2	02/16/1989	20,000	NA	200	900	2700	9600	NA	NA	7.68	5.33	2.35	NA
MW-2	05/23/1989	1,500	1,600	4.3	2.9	11	150	NA	NA	7.68	5.23	2.45	NA
MW-2	08/03/1989	15,000	7,400	75	120	850	2200	NA	NA	7.68	6.03	1.65	NA
MW-2	12/15/1989	5,000	2,600	52	13	4.1	290	NA	NA	7.68	6.43	1.25	NA
MW-2	02/07/1990	13,000	4,800	32	34	230	640	NA	NA	7.68	5.82	1.86	NA
MW-2	04/18/1990	9,800	3,200	33	19	460	1,700	NA	NA	7.68	5.88	1.80	NA
MW-2	07/23/1990	9,600	2,700	41	27	540	940	NA	NA	7.68	6.05	1.63	NA
MW-2	10/01/1990	390	1,600	3.4	15	8.5	25	NA	NA	7.68	NA	NA	NA
MW-2	01/03/1991	1,800	930	56	4.4	4.8	92	NA	NA	7.68	6.82	0.86	NA
MW-2	04/10/1991	1,900	280	ND	28	140	490	NA	NA	7.68	4.80	2.88	NA
MW-2	07/12/1991	8,100	1,100	89	66	350	930	NA	NA	7.68	5.70	1.98	NA
MW-2	10/08/1991	1,400	2,600	5.1	1.5	36	270	NA	NA	7.68	6.40	1.28	NA
MW-2	02/06/1992	2,000	5,400a	7.8	2.5	130	210	NA	NA	7.68	6.40	1.28	NA
MW-2	05/04/1992	21	1,000	ND	ND	300	960	NA	NA	7.68	4.68	3.00	NA
MW-2	07/28/1992	2,100	830a	7.7	3.3	130	310	NA	NA	7.68	5.86	1.82	NA
MW-2	10/27/1992	1,100	530	16	3.1	4.5	25	NA	NA	7.68	6.96	0.72	NA
MW-2	01/14/1993	290	170a	5.2	3.1	8.4	21	NA	NA	7.68	4.12	3.56	NA
MW-2	04/23/1993	2,400	1,200a	ND	ND	210	610	NA	NA	7.68	3.84	3.84	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA
Wic #204-5508-5504

Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-2	07/20/1993	440	130	1.7	1.7	15	38	NA	NA	10.55	5.17	5.38	NA
MW-2	10/18/1993	2,100	1,600a	ND	ND	90	110	NA	NA	10.55	6.20	4.35	NA
MW-2	01/06/1994	1.9a	130	ND	6.7	7.1	12	NA	NA	10.55	5.39	5.16	NA
MW-2	04/12/1994	120	130	ND	ND	3.4	4.3	NA	NA	10.55	4.72	5.83	NA
MW-2	07/25/1994	0.18a	280a	5.3	ND	6.2	8.2	NA	NA	10.55	5.44	5.11	NA
MW-2	10/25/1994	170	400	ND	ND	ND	ND	NA	NA	10.55	6.73	3.82	NA
MW-2	01/09/1995	ND	ND	ND	ND	ND	ND	NA	NA	10.55	4.34	6.21	NA
MW-2	04/11/1995	ND	ND	ND	ND	ND	ND	NA	NA	10.55	3.72	6.83	NA
MW-2	07/18/1995	250	160	2.8	0.5	12	13	NA	NA	10.55	4.91	5.64	NA
MW-2	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	10.55	5.88	4.67	NA
MW-2	01/09/1996	790	130	5.1	1.5	2.4	4.6	1,400	NA	10.55	4.75	5.80	NA
MW-2	04/02/1996	260	NA	<2	<2	13	6.9	540	NA	10.55	3.25	7.30	NA
MW-2	10/03/1996	<2000	620	<20	<20	<20	<20	13,000	NA	10.55	5.27	5.28	2.3
MW-2	04/03/1997	<1,000	190	<10	<10	<10	<10	2,800	NA	10.55	3.99	6.56	2.2
MW-2	10/08/1997	<5,000	1,100	<50	<50	<50	<50	a	NA	10.55	5.03	5.52	1.6
MW-2	06/10/1998	120	310	1.7	<1.0	<1.0	<1.0	3,800	NA	10.55	4.11	6.44	0.7/0.6
MW-2	12/30/1998	<5000	1,050	<50.0	<50.0	<50.0	<50.0	12,100	15300	10.55	4.76	5.79	1.3/1.2
MW-3	02/16/1989	60,000	NA	5,500	0	3,200	5,200	NA	NA	7.81	5.17	2.64	NA
MW-3	05/23/1989	ND	1,500	ND	200	ND	ND	NA	NA	7.81	5.09	2.72	NA
MW-3	08/03/1989	2,000	1,200	120	ND	ND	86	NA	NA	7.81	5.34	2.47	NA
MW-3	12/15/1989	5,200	1,700	380	12	17	410	NA	NA	7.81	6.02	1.79	NA
MW-3	02/07/1990	260	230	17	47	5.4	2.5	NA	NA	7.81	4.95	2.86	NA
MW-3	04/18/1990	260	ND	ND	ND	ND	9.4	NA	NA	7.81	5.55	2.26	NA
MW-3	07/23/1990	510	210	46	ND	ND	9.3	NA	NA	7.81	5.81	2.00	NA
MW-3	09/27/1990	460	350	6.3	1.2	ND	15	NA	NA	7.81	6.86	0.95	NA
MW-3	01/03/1991	4,800	630	920	1.7	ND	190	NA	NA	7.81	6.84	0.97	NA
MW-3	04/10/1991	120	60	1.2	6.8	3.5	21	NA	NA	7.81	4.93	2.88	NA
MW-3	07/12/1991	430	ND	12	0.8	ND	7.7	NA	NA	7.81	5.56	2.25	NA
MW-3	10/08/1991	770	560	140	ND	ND	53	NA	NA	7.81	6.62	1.19	NA

WELL CONCENTRATIONS
Shell-branded Service Station
285 Hegenberger Road
Oakland, CA
Wic #204-5508-5504

Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-3	02/06/1992	500	340a	74	0.7	5.2	5.3	NA	NA	7.81	6.28	1.53	NA
MW-3	05/04/1992	310	290a	47	0.9	17	16	NA	NA	7.81	4.65	3.16	NA
MW-3	07/28/1992	780	100a	130	ND	13	4.2	NA	NA	7.81	5.56	2.25	NA
MW-3	10/27/1992	740	69a	92	ND	7.8	9.6	NA	NA	7.81	6.65	1.16	NA
MW-3	01/14/1993	ND	ND	2.4	2.8	ND	ND	NA	NA	7.81	3.88	3.93	NA
MW-3	04/23/93b	NA	NA	NA	NA	NA	NA	NA	NA	7.81	NA	NA	NA
MW-3	07/20/93b	NA	NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	NA	NA	NA
MW-3	10/18/93b		NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	NA	NA	NA
MW-3	01/06/1994	130	64	1.7	0	ND	0.93	NA	NA	11.25 (TOB)	5.54	NA	NA
MW-3	04/12/1994	ND	75	0.82	ND	ND	0.7	NA	NA	11.25 (TOB)	4.82	NA	NA
MW-3	07/25/1994	0.06a	ND	2.8	ND	ND	0.7	NA	NA	11.25 (TOB)	6.03 (TOB)	5.22	NA
MW-3	10/25/1994	70	100	ND	ND	ND	ND	NA	NA	11.25 (TOB)	6.48	NA	NA
MW-3	01/09/1995	ND	ND	ND	ND	ND	ND	NA	NA	11.25 (TOB)	4.86 (TOB)	6.39	NA
MW-3	04/11/1995	ND	ND	ND	ND	ND	ND	NA	NA	11.25 (TOB)	4.22 (TOB)	7.03	NA
MW-3	07/18/1995	ND	90	2.8	ND	ND	ND	NA	NA	11.25 (TOB)	5.44 (TOB)	5.81	NA
MW-3	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	11.25 (TOB)	5.72	NA	NA
MW-3	01/09/1996	90	90	1.7	ND	<0.5	<0.5	61	NA	11.25 (TOB)	4.96	NA	NA
MW-3	04/02/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	24	NA	11.25 (TOB)	3.43	NA	NA
MW-3	10/03/1996	<500	180	<5	<5	<5	<5	1,200	NA	11.25 (TOB)	5.39	NA	2.4
MW-3	04/03/1997	150	83	3.2	<0.50	<0.50	0.81	280	NA	11.25 (TOB)	4.20	NA	2.0
MW-3	10/08/1997	180	120	7.3	0.68	0.54	3.9	1,700	NA	11.25 (TOB)	5.51(TOB)	5.74	2.1
MW-3	06/10/1998	130	120	12	0.85	<0.50	2.1	600	NA	11.25 (TOB)	3.91(TOB)	7.34	0.8/0.9
MW-3	12/30/1998	<250	108	<2.50	<2.50	<2.50	<2.50	1,010	NA	11.25 (TOB)	5.76	5.49	1.3/1.4
MW-4	05/23/1989	ND	ND	ND	0	ND	ND	NA	NA	7.38	5.60	1.78	NA
MW-4	08/03/1989	ND	ND	ND	ND	ND	ND	NA	NA	7.38	6.37	1.01	NA
MW-4	12/15/1989	ND	ND	ND	ND	ND	ND	NA	NA	7.38	6.91	0.47	NA
MW-4	03/08/1990	ND	ND	ND	ND	ND	ND	NA	NA	7.38	6.06	1.32	NA
MW-4	04/18/1990	NA	NA	NA	NA	NA	NA	NA	NA	7.38	5.84	1.54	NA
MW-4	07/23/1990	ND	ND	ND	ND	ND	ND	NA	NA	7.38	6.92	0.46	NA

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Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-4	09/27/1991	ND	ND	ND	ND	ND	ND	NA	NA	7.38	8.03	0.65	NA
MW-4	01/03/1991	NA	NA	NA	NA	NA	NA	NA	NA	7.38	7.54	-0.16	NA
MW-4	04/10/1991	ND	ND	ND	ND	ND	ND	NA	NA	7.38	5.06	2.32	NA
MW-4	07/12/1991	ND	ND	ND	ND	ND	ND	NA	NA	7.38	6.86	0.52	NA
MW-4	10/08/1991	ND	ND	ND	ND	ND	ND	NA	NA	7.38	7.44	-0.06	NA
MW-4	02/06/1992	120	2,500a	ND	ND	ND	ND	NA	NA	7.38	7.29	0.09	NA
MW-4	05/04/1992	ND	53	ND	ND	ND	ND	NA	NA	7.38	5.33	2.05	NA
MW-4	07/28/1992	ND	60	ND	ND	ND	ND	NA	NA	7.38	6.95	0.43	NA
MW-4	10/27/1992	ND	ND	ND	ND	ND	ND	NA	NA	7.38	7.65	-0.27	NA
MW-4	01/14/1993	ND	ND	ND	ND	ND	ND	NA	NA	7.38	4.84	2.54	NA
MW-4	04/23/1993	ND	ND	ND	ND	ND	ND	NA	NA	7.38	4.84	2.54	NA
MW-4	07/20/1993	ND	ND	2.2	ND	1.1	7.7	NA	NA	10.28	6.47	3.81	NA
MW-4	10/18/1993	ND	ND	ND	1.2	ND	ND	NA	NA	10.28	7.35	2.93	NA
MW-4	01/06/1994	ND	ND	ND	ND	ND	ND	NA	NA	10.28	7.64	2.64	NA
MW-4	04/12/1994	ND	76	ND	ND	ND	ND	NA	NA	10.28	6.39	3.89	NA
MW-4	07/25/1994	ND	ND	ND	ND	ND	ND	NA	NA	10.28	7.00	3.28	NA
MW-4	10/25/1994	ND	ND	ND	ND	ND	ND	NA	NA	10.28	7.53	2.75	NA
MW-4	01/09/1995	ND	70a	ND	ND	ND	ND	NA	NA	10.28	4.90	5.38	NA
MW-4	04/11/1995	ND	140	1.5	ND	0.6	3.4	NA	NA	10.28	5.04	5.24	NA
MW-4	07/18/1995	ND	160	13	3.4	ND	ND	NA	NA	10.28	6.18	4.10	NA
MW-4	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	10.28	6.63	3.65	NA
MW-4	01/09/1996	<50	ND	<0.5	ND	<0.5	<0.5	ND	NA	10.28	3.82	6.46	NA
MW-4	04/02/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	10.28	3.97	6.31	NA
MW-4	10/03/1996	<50	81	<0.5	<0.5	<0.5	<0.5	<2.5	NA	10.28	3.74	6.54	NA
MW-4	04/03/1997	<50	69	<0.50	<0.50	<0.50	<0.50	<2.5	NA	10.28	3.74	6.54	1.8
MW-4	10/08/1997	<50	75	<0.50	<0.50	<0.50	<0.50	13	NA	10.28	4.89	5.39	2.0
MW-4 (D)	10/08/1997	<50	NA	<0.50	<0.50	<0.50	<0.50	<2.5	NA	10.28	4.89	5.39	2.0
MW-4	06/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	10.28	4.39	5.89	NA
MW-4	12/30/1998	<50.0	94.1	<0.500	<0.500	<0.500	0.580	7.33	NA	10.28	5.58	4.70	1.7/1.6

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Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-5	05/23/1989	26,000	7,000	1,500	280	ND	8,100	NA	NA	8.18	5.47	2.71	NA
MW-5	08/03/1989	12,000	8,700	860	94	ND	2,600	NA	NA	8.18	5.94	2.24	NA
MW-5	12/15/1989	1,000	710	22	35	18	44	NA	NA	8.18	6.75	1.43	NA
MW-5	02/07/1990	ND	620	0.8	ND	ND	ND	NA	NA	8.18	6.03	2.15	NA
MW-5	04/18/1990	19,000	5,000	4,500	850	97	8,000	NA	NA	8.18	5.80	2.38	NA
MW-5	07/23/1990	23,000	2,700	3,600	400	160	6,500	NA	NA	8.18	6.00	2.18	NA
MW-5	09/23/1990	5,400	550	1,400	26	13	1,300	NA	NA	8.18	7.18	1.00	NA
MW-5	01/03/1991	860	560	280	2.8	0.8	45	NA	NA	8.18	7.17	1.01	NA
MW-5	04/10/1991	12,000	1,800	710	130	500	2,400	NA	NA	8.18	5.25	2.93	NA
MW-5	07/12/1991	24,000	1,700	2,200	280	430	5,700	NA	NA	8.18	5.70	2.48	NA
MW-5	10/08/1991	2,800	1,400	860	13	ND	580	NA	NA	8.18	6.50	1.68	NA
MW-5	02/06/1992	1,000	1,200	300	ND	14	62	NA	NA	8.18	6.35	1.83	NA
MW-5	05/04/1992	10,000	4,100a	1,500	350	710	2,300	NA	NA	8.18	4.87	3.31	NA
MW-5	07/28/1992	12,000	3,800a	2,200	63	1,400	3,500	NA	NA	8.18	5.73	2.45	NA
MW-5	10/27/1992	7,500	480a	1,100	59	230	900	NA	NA	8.18	6.98	1.20	NA
MW-5	01/14/1993	7,700	1,100a	420	49	570	840	NA	NA	8.18	4.70	3.48	NA
MW-5	04/23/1993	110,000	1,600a	2,900	2,500	3,400	12,000	NA	NA	8.18	4.19	3.99	NA
MW-5	07/20/1993	18a	1,200a	1,400	84	1,500	3,200	NA	NA	10.87	5.10	5.77	NA
MW-5	10/18/1993	14,000	5,800a	2,000	100	2,300	5,100	NA	NA	10.87	5.79	5.08	NA
MW-5	01/06/1994	81,000	1,100a	11,000	9,300	3,600	12,000	NA	NA	10.87	5.56	5.31	NA
MW-5	04/12/1994	17,000	4,100	2,900	380	430	1,300	NA	NA	10.87	4.90	5.97	NA
MW-5	07/25/1994	5,900	5,400a	1,500	42	34	170	NA	NA	10.87	5.38	5.49	NA
MW-5	10/25/1994	2,300	1,900a	35	3	ND	8	NA	NA	10.87	6.16	4.71	NA
MW-5	01/09/1995	8,300	3,700a	1,500	95	330	1,900	NA	NA	10.87	4.60	6.27	NA
MW-5	04/11/1995	7,300	9,800	1,200	230	600	550	NA	NA	10.87	3.74	7.13	NA
MW-5	07/18/1995	17,000	5,100	2,300	730	770	2,500	NA	NA	10.87	4.97	5.90	NA
MW-5	10/18/1995	Well abandoned		NA	NA	NA	NA	NA	NA	10.87	5.67	5.20	NA
MW-6	05/23/1989	22,000	7,000	16	6.5	7	3,400	NA	NA	8.21	5.47	2.74	NA
MW-6	08/03/1989	28,000	8,800	1,200	130	2,100	2,800	NA	NA	8.21	5.91	2.30	NA

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Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-6	12/15/1989	16,000	5,500	370	92	200	180	NA	NA	8.21	5.98	2.23	NA
MW-6	02/07/1990	22,000	2,600	520	85	630	770	NA	NA	8.21	5.47	2.74	NA
MW-6	04/18/1990	21,000	5,700	900	77	2,700	2,700	NA	NA	8.21	5.80	2.41	NA
MW-6	07/23/1990	24,000	3,000	1,000	94	3,400	2,700	NA	NA	8.21	5.85	2.36	NA
MW-6	09/27/1990	22,000	ND	700	93	2,500	2,400	NA	NA	8.21	6.42	1.79	NA
MW-6	01/03/1991	25,000	960	1,000	88	2,600	3,700	NA	NA	8.21	6.73	1.48	NA
MW-6	04/10/1991	18,000	920	560	190	480	830	NA	NA	8.21	5.24	2.97	NA
MW-6	07/12/1991	9,500	1,900	670	51	1,100	920	NA	NA	8.21	5.78	2.43	NA
MW-6	10/08/1991	11,000	5,100	1,000	43	ND	ND	NA	NA	8.21	6.36	1.85	NA
MW-6	02/06/1992	7,200	1500a	560	8	720	160	NA	NA	8.21	6.15	2.06	NA
MW-6	05/04/1992	7,900	2,900a	610	ND	1,500	240	NA	NA	8.21	5.07	3.14	NA
MW-6	07/28/1992	17,000	3,200a	1,200	ND	3,000	610	NA	NA	8.21	5.85	2.36	NA
MW-6	10/27/1992	15,000	1,300a	1,300	130	1,700	490	NA	NA	8.21	6.69	1.52	NA
MW-6	01/14/1993	4,900	1,600a	80	31	330	37	NA	NA	8.21	4.52	3.69	NA
MW-6	04/23/1993	4,800	1,800a	120	ND	780	73	NA	NA	8.21	4.32	3.89	NA
MW-6	07/20/1993	19a	910a	570	18	1,100	130	NA	NA	11.04	5.39	5.65	NA
MW-6	10/18/1993	24,000	2,500a	770	440	1,600	830	NA	NA	11.04	6.67	4.37	NA
MW-6	01/06/1994	20a	2,300a	450	30	530	52	NA	NA	11.04	5.66	5.38	NA
MW-6	04/12/1994	3,600	1,600	150	ND	340	21	NA	NA	11.04	4.91	6.13	NA
MW-6	07/25/1994	1,600	2,200a	160	ND	ND	10	NA	NA	11.04	5.55	5.49	NA
MW-6 (D)	07/25/1994	1,000	2,400a	160	ND	ND	18	NA	NA	11.04	5.55	5.49	NA
MW-6	10/25/1994	9,800	3,000a	390	22	300	57	NA	NA	11.04	6.24	4.80	NA
MW-6	01/09/1995	2,200	800a	74	12	400	39	NA	NA	11.04	4.58	6.46	NA
MW-6	04/11/1995	5,000	7,700	330	15	760	85	NA	NA	11.04	4.04	7.00	NA
MW-6	07/18/1995	4,200	1,700	320	11	490	22	NA	NA	11.04	5.01	6.03	NA
MW-6	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	11.04	5.86	5.18	NA
MW-6	01/09/1996	5,600	790	59	<5	180	12	14,000	NA	11.04	4.75	6.29	NA
MW-6	04/02/1996	1,500	NA	12	<5	170	9	1,900	NA	11.04	3.82	7.22	NA
MW-6	10/03/1996	2,600	1,800	110	<25	<25	<25	11,000	NA	11.04	5.27	5.77	2.2
MW-6	04/03/1997	<2,500	650	30	<25	32	<25	10,000	NA	11.04	4.42	6.62	2.0

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Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-6	10/08/1997	1,900	1,100	31	<5.0	6.1	<5.0	2,600	NA	11.04	4.70	6.34	1.0
MW-6	06/10/1998	<1,000	1,500	17	12	14	88	14,000	NA	11.04	4.36	6.68	0.4/0.4
MW-6	12/30/1998	260	528	<2.50	<2.50	<2.50	<2.50	909	NA	11.04	4.98	6.06	2.1/1.6
MW-7	05/23/1989	47,000	11,000	3,500	5,000	1,500	7,800	NA	NA	7.44	5.48	1.96	NA
MW-7	08/03/1989	68,000	22,000	6,200	6,600	3,600	8,800	NA	NA	7.44	4.22	3.22	NA
MW-7	12/15/1989	100,000	12,000	4,500	5,300	1,300	5,300	NA	NA	7.44	4.58	2.86	NA
MW-7	02/07/1990	96,000	8,100	15,000	15,000	2,500	14,000	NA	NA	7.44	5.34	2.10	NA
MW-7	04/18/1990	94,000	10,000	25,000	13,000	3,300	13,000	NA	NA	7.44	4.92	2.52	NA
MW-7	07/23/1990	84,000	12,000	3,800	26,000	13,000	3,000	NA	NA	7.44	4.99	2.45	NA
MW-7	09/27/1990	43,000	ND	25,000	6,100	2,400	9,000	NA	NA	7.44	6.16	1.28	NA
MW-7	01/03/1991	78,000	3,100	26,000	16,000	3,000	14,000	NA	NA	7.44	4.96	2.48	NA
MW-7	04/10/1991	140,000	1,800	26,000	16,000	2,200	14,000	NA	NA	7.44	4.13	3.31	NA
MW-7	07/12/1991	79,000	1,100	7,700	7,200	2,300	10,000	NA	NA	7.44	4.98	2.46	NA
MW-7	10/08/1991	55,000	390a	29,000	7,500	1,800	9,300	NA	NA	7.44	5.48	1.96	NA
MW-7	02/06/1992	63,000	9,600a	16,000	8,700	1,600	7,400	NA	NA	7.44	5.05	2.39	NA
MW-7	05/04/1992	67,000	9,800a	22,000	13,000	1,800	9,400	NA	NA	7.44	4.43	3.01	NA
MW-7	07/28/1992	85,000	13,000a	26,000	17,000	2,900	15,000	NA	NA	7.44	4.88	2.56	NA
MW-7	10/27/1992	63,000	1,900a	21,000	11,000	3,000	11,000	NA	NA	7.44	5.39	2.05	NA
MW-7	01/14/1993	120,000	2,300a	28,000	21,000	1,600	15,000	NA	NA	7.44	4.26	3.18	NA
MW-7	04/23/1993	60,000	12,000a	17,000	3,700	2,200	11,000	NA	NA	7.44	4.04	3.40	NA
MW-7 (D)	04/23/1993	50,000	14,000a	17,000	4,200	2,200	11,000	NA	NA	7.44	4.04	3.40	NA
MW-7	07/20/1993	47,000	13,000	23,000	9,900	2,200	12,000	NA	NA	10.28	4.36	5.92	NA
MW-7	10/18/1993	44,000	10,000a	22,000	3,800	2,600	10,000	NA	NA	10.28	5.14	5.14	NA
MW-7	01/06/1994	65,000	5,200a	16,000	4,900	1,900	8,500	NA	NA	10.28	4.83	5.45	NA
MW-7	04/12/1994	68,000	3,400	12,000	2,000	580	6,400	NA	NA	10.28	4.24	6.04	NA
MW-7	07/25/1994	63,000	4,200a	16,000	5,800	300	8,300	NA	NA	10.28	4.58	5.70	NA
MW-7	10/25/1994	46,000	3,800a	16,000	3,700	1,200	7,300	NA	NA	10.28	5.07	5.21	NA
MW-7	01/09/1995	62,000	3,300a	24,000	8,500	1,100	9,400	NA	NA	10.28	3.38	6.90	NA
MW-7 (D)	01/11/1995	57,000	3,200a	9,500	7,900	620	8,000	NA	NA	10.28	3.38	6.90	NA

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MW-7	04/11/1995	53,000	7,000	13,000	4,200	1,500	7,700	NA	NA	10.28	3.52	6.76	NA
MW-7 (D)	04/12/1995	55,000	7,600	11,000	3,700	1,300	6,400	NA	NA	10.28	3.52	6.76	NA
MW-7	07/18/1995	95,000	2,700	24,000	8,000	2,100	12,000	NA	NA	10.28	4.70	5.58	NA
MW-7	10/18/1995	Well abandoned		NA	NA	NA	NA	NA	NA	10.28	5.25	5.03	NA
MW-8	05/23/1989	ND	100	ND	ND	ND	ND	NA	NA	7.79	6.62	1.17	NA
MW-8	08/03/1989	ND	75	ND	ND	ND	ND	NA	NA	7.79	6.62	1.17	NA
MW-8	12/15/1989	ND	ND	ND	ND	ND	ND	NA	NA	7.79	6.71	1.08	NA
MW-8	03/08/1990	ND	ND	ND	ND	ND	ND	NA	NA	7.79	4.95	2.84	NA
MW-8	04/18/1990	NA	NA	NA	NA	NA	NA	NA	NA	7.79	6.40	1.89	NA
MW-8	07/23/1990	ND	ND	ND	ND	ND	ND	NA	NA	7.79	6.62	1.17	NA
MW-8	09/27/1990	ND	1,100	ND	ND	ND	ND	NA	NA	7.79	6.98	0.81	NA
MW-8	01/03/1991	ND	ND	1.3	ND	ND	ND	NA	NA	7.79	7.03	0.76	NA
MW-8	04/10/1991	50	ND	0.7	1.1	0.8	1	NA	NA	7.79	4.40	3.39	NA
MW-8	07/12/1991	ND	ND	ND	ND	ND	ND	NA	NA	7.79	6.80	0.99	NA
MW-8	10/08/1991	ND	ND	1.4	ND	ND	ND	NA	NA	7.79	7.56	0.23	NA
MW-8	02/06/1992	ND	60a	ND	0.7	ND	ND	NA	NA	7.79	6.94	0.85	NA
MW-8	05/04/1992	ND	210a	ND	ND	ND	ND	NA	NA	7.79	5.86	1.93	NA
MW-8	07/28/1992	51	ND	ND	ND	1	0.6	NA	NA	7.79	6.94	0.85	NA
MW-8	10/27/1992	ND	ND	ND	6.6	ND	ND	NA	NA	7.79	7.83	-0.04	NA
MW-8	01/14/1993	ND	64a	ND	ND	ND	ND	NA	NA	7.79	3.60	4.19	NA
MW-8 (D)	01/14/1993	ND	NA	ND	ND	ND	ND	NA	NA	7.79	3.60	4.19	NA
MW-8	04/23/1993	ND	ND	ND	ND	ND	ND	NA	NA	7.79	4.12	3.67	NA
MW-8	07/20/1993	ND	ND	0.7	0.7	0.8	4.1	NA	NA	10.61	6.38	4.23	NA
MW-8	10/18/1993	ND	ND	ND	800	ND	ND	NA	NA	10.61	7.47	3.14	NA
MW-8	01/06/1994	ND	ND	ND	ND	ND	ND	NA	NA	10.61	7.20	3.41	NA
MW-8	04/12/1994	ND	ND	ND	ND	ND	ND	NA	NA	10.61	6.16	4.45	NA
MW-8	07/25/1994	ND	ND	ND	ND	ND	ND	NA	NA	10.61	6.94	3.67	NA
MW-8	10/25/1994	ND	ND	ND	1	ND	ND	NA	NA	10.61	7.43	3.18	NA
MW-8	01/09/1995	ND	70a	ND	ND	ND	ND	NA	NA	10.61	3.98	6.63	NA

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Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-8	04/11/1995	ND	78	0.63	1.3	ND	0.75	NA	NA	10.61	4.12	6.49	NA
MW-8	07/18/1995	ND	130	ND	ND	ND	ND	NA	NA	10.61	5.21	5.40	NA
MW-8	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	10.61	5.58	5.03	NA
MW-8	01/09/1996	<50	ND	<0.5	<0.5	<0.5	<0.5	ND	NA	10.61	5.09	5.52	NA
MW-8	04/02/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	10.61	3.42	7.19	NA
MW-8	10/03/1996	<50	<69	<0.5	<0.5	<0.5	<0.5	<2.5	NA	10.61	4.30	6.31	NA
MW-8	04/03/1997	<50	62	<0.50	<0.50	<0.50	0.91	<2.5	NA	10.61	4.58	6.03	2.6
MW-8	10/08/1997	<50	57	<0.50	<0.50	<0.50	<0.50	<2.5	NA	10.61	3.00	7.61	3.6
MW-8	06/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	10.61	2.88	7.73	NA
MW-8	12/30/1998	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	10.61	5.38	5.23	0.8/0.9
MW-9	08/03/1989	47,000	12,000	5,600	6,600	1,500	8,500	NA	NA	7.63	5.78	1.85	NA
MW-9	12/15/1989	88,000	9,200	4,300	5,400	140	5,600	NA	NA	7.63	5.24	2.39	NA
MW-9	02/07/1990	50,000	7,400	1,800	1,400	3,200	1,800	NA	NA	7.63	5.23	2.40	NA
MW-9	04/18/1990	50,000	7,500	14,000	11,000	730	10,000	NA	NA	7.63	5.34	2.29	NA
MW-9	07/23/1990	62,000	3,200	19,000	16,000	950	15,000	NA	NA	7.63	5.65	1.98	NA
MW-9	09/27/1990	30,000	2,700	16,000	6,500	980	11,000	NA	NA	7.63	5.96	1.67	NA
MW-9	01/03/1991	34,000	2,500	9,200	3,200	770	7,000	NA	NA	7.63	6.23	1.40	NA
MW-9	04/10/1991	66,000	2,200	17,000	13,000	1,400	14,000	NA	NA	7.63	4.65	2.98	NA
MW-9	07/12/1991	40,000	2,000	7,700	3,200	1,100	9,400	NA	NA	7.63	5.65	1.98	NA
MW-9	10/08/1991	20,000	4,700a	11,000	640	240	6,000	NA	NA	7.63	6.08	1.55	NA
MW-9	02/06/1992	36,000	6,600a	11,000	490	1,100	6,700	NA	NA	7.63	5.92	1.71	NA
MW-9	05/04/1992	31,000	5,800a	11,000	1,700	1,200	8,700	NA	NA	7.63	4.80	2.83	NA
MW-9	07/28/1992	50,000	14,000	17,000	1,200	1,500	12,000	NA	NA	7.63	5.61	2.02	NA
MW-9	10/27/1992	43,000	880a	15,000	680	1,700	8,100	NA	NA	7.63	6.24	1.39	NA
MW-9	01/14/1993	52,000	730a	9,600	1,100	1,100	7,000	NA	NA	7.63	4.95	2.68	NA
MW-9	04/23/1993	45,000	8,000a	11,000	1,400	1,500	10,000	NA	NA	7.63	4.54	3.09	NA
MW-9	07/20/1993	25,000	5,100	10,000	320	1,100	7,100	NA	NA	10.48	5.25	5.23	NA
MW-9	10/18/1993	32,000	4,900a	14,000	530	2,000	10,000	NA	NA	10.48	6.00	4.48	NA
MW-9	01/06/1994	41,000	7,700a	15,000	810	1,400	9,000	NA	NA	10.48	5.62	4.86	NA

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Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-9 (D)	01/06/1994	43,000	8,300a	15,000	920	1,300	8,000	NA	NA	10.48	5.62	4.86	NA
MW-9	04/12/1994	39,000	2,000	8,300	ND	ND	4,000	NA	NA	10.48	4.31	6.17	NA
MW-9	07/26/1994	22,000	3,600a	7,500	150	ND	4,100	NA	NA	10.48	5.43	5.05	NA
MW-9	10/25/1994	31,000	3,200a	13,000	240	1,000	8,500	NA	NA	10.48	6.00	4.48	NA
MW-9 (D)	10/26/1994	31,000	3,500a	13,000	220	1,100	8,300	NA	NA	10.48	6.00	4.48	NA
MW-9	01/09/1995	4,800	2,300a	1,200	510	42	1,400	NA	NA	10.48	4.26	6.22	NA
MW-9	04/11/1995	20,000	3,400	5,100	460	400	3,400	NA	NA	10.48	4.08	6.40	NA
MW-9	07/18/1995	43,000	2,900	12,000	1,800	960	9,100	NA	NA	10.48	5.07	5.41	NA
MW-9	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	10.48	5.82	4.66	NA
MW-9	01/09/1996	64,000	2,800	12,000	5,400	1,800	10,000	2100	NA	10.48	4.36	6.12	NA
MW-9	04/02/1996	39,000	NA	10,000	100	520	4,100	<500	NA	10.48	3.86	6.62	NA
MW-9	10/03/1996	46,000	3,100	12,000	180	1,400	6,700	2,300	NA	10.48	4.90	5.58	1.4
MW-9	04/03/1997	36,000	2,300	9,700	140	580	3,900	<500	NA	10.48	3.98	6.50	1.8
MW-9	10/08/1997	34,000	3,500	6,900	<100	830	4,500	<125	NA	10.48	4.17	6.31	0.8
MW-9	06/10/1998	20,000	2,500	9,900	250	3,100	170	460	NA	10.48	3.84	6.64	0.3/0.4
MW-9	12/30/1998	30,100	1,900	8,500	166	603	3,340	<100	NA	10.48	4.72	5.76	1.1/1.2
MW-10	12/15/1989	ND	3,100	1,500	ND	ND	ND	NA	NA	7.45	6.33	0.82	NA
MW-10	03/08/1990	25,000	1,800	17,000	330	2,100	1,400	NA	NA	7.45	5.41	2.00	NA
MW-10	04/18/1990	23,000	3,600	15,000	1,200	190	3,300	NA	NA	7.45	5.60	1.85	NA
MW-10	07/23/1990	18,000	1,900	12,000	380	ND	1,400	NA	NA	7.45	5.81	1.64	NA
MW-10	09/27/1990	9,500	430	13,000	100	1,800	230	NA	NA	7.45	6.64	0.81	NA
MW-10	01/03/1991	4,300	630	3,700	10	ND	110	NA	NA	7.45	6.96	0.49	NA
MW-10	04/10/1991	45,000	1,400	16,000	4,600	3,000	6,900	NA	NA	7.45	4.70	2.75	NA
MW-10	07/12/1991	ND	ND	ND	ND	ND	ND	NA	NA	7.45	5.90	1.55	NA
MW-10	10/08/1991	3,800	1,500a	13,000	82	9	500	NA	NA	7.45	6.68	0.77	NA
MW-10	02/06/1992	22,000	1,600a	12,000	ND	600	170	NA	NA	7.45	7.04	0.41	NA
MW-10	05/04/1992	39,000	8,000a	14,000	5,000	1,800	5,000	NA	NA	7.45	4.69	2.76	NA
MW-10	07/28/1992	38,000	8,700a	17,000	2,800	1,500	4,000	NA	NA	7.45	6.00	1.45	NA
MW-10	10/27/92b	NA	NA	NA	NA	NA	NA	NA	NA	7.45	NA	NA	NA

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Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-10	01/14/1993	26,000	950a	10,000	ND	ND	160	NA	NA	7.45	6.07	1.38	NA
MW-10	04/23/1993	80,000	1,900a	21,000	13,000	3,400	12,000	NA	NA	7.45	4.14	3.31	NA
MW-10	07/20/1993	31,000	4,800	14,000	4,200	1,700	5,500	NA	NA	10.61	5.62	4.99	NA
MW-10	10/18/1993	13,000	1,200a	8,600	220	ND	450	NA	NA	10.61	6.43	4.18	NA
MW-10	01/06/1994	16,000	670a	9,700	<125	<125	210	NA	NA	10.61	6.74	3.87	NA
MW-10	04/12/1994	16,000	860	5,600	ND	ND	ND	NA	NA	10.61	5.98	4.63	NA
MW-10	07/25/1994	2,300	2,100a	1,400	26	25	51	NA	NA	10.61	6.31	4.30	NA
MW-10	10/25/1994	1,400	1,000a	290	5	2	38	NA	NA	10.61	6.64	3.97	NA
MW-10	01/09/1995	16,000	2,300a	7,500	1,400	230	1,500	NA	NA	10.61	5.70	4.91	NA
MW-10	04/11/1995	54,000	5,000	13,000	4,500	1,500	4,500	NA	NA	10.61	5.82	4.79	NA
MW-10	07/18/1995	72,000	2,600	20,000	7,200	2,800	9,000	NA	NA	10.61	6.79	3.82	NA
MW-10	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	10.61	5.31	5.30	NA
MW-10	01/09/1996	32,000	2,100	8,000	1,600	880	3,200	12,000	NA	10.61	5.92	4.69	NA
MW-10	04/02/1996	68,000	NA	9,100	2,300	1,100	3,700	3,300	NA	10.61	5.43	5.18	NA
MW-10	10/03/1996	33,000	2,900	11,000	1,300	830	2,400	7,300	NA	10.61	6.07	4.54	1.7
MW-10 (D)	10/03/1996	40,000	3,300	12,000	1,700	1,100	3,100	6,500	NA	10.61	6.07	4.54	1.7
MW-10	04/03/1997	36,000	3,400	12,000	2,300	1,400	4,500	2,300	NA	10.61	3.45	7.16	1.8
MW-10 (D)	04/03/1997	52,000	3,000	12,000	2,300	1,400	4,500	2,100	NA	10.61	3.45	7.16	1.8
MW-10	10/08/1997	20,000	3,100	7,500	420	470	1,300	1,500	NA	10.61	3.72	6.89	1.2
MW-10	06/10/1998	48,000	2,500	14,000	2,600	1,500	4,800	1,800	NA	10.61	4.00	6.61	0.7/0.5
MW-10	12/30/1998	17,800	2,820	6,000	136	344	639	1,250	NA	10.61	5.26	5.35	1.0/0.7
MW-11	07/20/1993	50	ND	2.5	1.9	3.9	18	NA	NA	10.56	8.08	2.48	NA
MW-11	10/18/1993	ND	65	ND	ND	ND	ND	NA	NA	10.56	8.24	2.32	NA
MW-11	01/06/1994	ND	ND	ND	ND	ND	ND	NA	NA	10.56	8.47	2.09	NA
MW-11	04/12/1994	ND	ND	1.1	0.87	ND	1.5	NA	NA	10.56	8.44	2.12	NA
MW-11	07/25/1994	ND	ND	ND	ND	ND	ND	NA	NA	10.56	8.20	2.36	NA
MW-11	10/25/1994	ND	100	ND	ND	ND	ND	NA	NA	10.56	8.67	1.89	NA
MW-11	01/09/1995	ND	ND	ND	ND	ND	ND	NA	NA	10.56	7.63	2.93	NA
MW-11	04/11/1995	ND	140	ND	0.7	ND	0.5	NA	NA	10.56	8.06	2.50	NA

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Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-11	07/18/1995	ND	50	ND	ND	ND	ND	NA	NA	10.56	9.31	1.25	NA
MW-11	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	10.56	8.34	2.22	NA
MW-11	01/09/1996	<50	ND	<0.5	<0.5	<0.5	<0.5	ND	NA	10.56	8.22	2.34	NA
MW-11	04/02/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	10.56	7.97	2.59	NA
MW-11	10/03/1996	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	10.56	8.37	2.19	3.6
MW-11	04/03/1997	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	10.56	8.31	2.25	2.2
MW-11	10/08/1997	<50	54	<0.50	<0.50	<0.50	<0.50	<2.5	NA	10.56	8.56	2.00	1.2
MW-11	06/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	10.56	7.85	2.71	NA
MW-11	12/30/1998	<50.0	66.2	<0.500	<0.500	<0.500	<0.500	<2.00	NA	10.56	8.51	2.05	0.7/0.6
MW-12	07/20/1993	ND	1,500	2.8	1.9	3.2	ND	NA	NA	9.56	6.76	2.80	NA
MW-12	10/18/1993	ND	ND	ND	ND	ND	ND	NA	NA	9.56	7.12	2.44	NA
MW-12	01/06/1994	ND	ND	ND	ND	ND	ND	NA	NA	9.56	7.15	2.41	NA
MW-12	04/12/1994	ND	ND	0.61	ND	ND	1.1	NA	NA	9.56	6.68	2.88	NA
MW-12	07/25/1994	ND	ND	ND	ND	ND	ND	NA	NA	9.56	6.83	2.73	NA
MW-12	10/25/1994	ND	ND	ND	ND	ND	ND	NA	NA	9.56	7.34	2.22	NA
MW-12	01/09/1995	ND	80a	ND	ND	ND	ND	NA	NA	9.56	5.02	4.54	NA
MW-12	04/11/1995	ND	200	ND	ND	ND	ND	NA	NA	9.56	7.38	2.18	NA
MW-12	07/18/1995	ND	90	ND	ND	ND	ND	NA	NA	9.56	8.50	1.06	NA
MW-12	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	9.56	6.63	2.93	NA
MW-12	01/09/1996	<50	ND	<0.5	<0.5	<0.5	<0.5	ND	NA	9.56	6.32	3.24	NA
MW-12	04/02/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	9.56	5.60	3.96	NA
MW-12	10/03/1996	<50	72	<0.5	<0.5	<0.5	<0.5	<2.5	NA	9.56	3.30	6.26	2.5
MW-12	04/03/1997	<50	74	<0.50	<0.50	<0.50	<0.50	<2.5	NA	9.56	6.13	3.43	2.2
MW-12	10/08/1997	<50	73	<0.50	<0.50	<0.50	<0.50	<2.5	NA	9.56	6.49	3.07	3.0
MW-12	06/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	9.56	5.85	3.71	NA
MW-12	12/30/1998	<50.0	<50.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	9.56	8.42	1.14	1.3/0.9
MW-13	07/20/1993	ND	1,500	ND	ND	ND	ND	NA	NA	10.10	8.32	1.78	NA
MW-13 (D)	07/21/1993	ND	1,000	ND	ND	ND	ND	NA	NA	10.10	8.32	1.78	NA

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Well ID	Date	TPHg (ug/L)	TPHd (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)	DO Reading (ppm)
MW-13	10/18/1993	ND	ND	ND	ND	ND	ND	NA	NA	10.10	8.66	1.44	NA
MW-13	01/06/1994	ND	ND	ND	ND	ND	ND	NA	NA	10.10	8.70	1.40	NA
MW-13	04/12/1994	ND	100	1.7	1.2	0.59	2.4	NA	NA	10.10	8.20	1.90	NA
MW-13	07/25/1994	ND	ND	ND	ND	ND	ND	NA	NA	10.10	8.39	1.71	NA
MW-13	10/25/1994	ND	ND	ND	ND	ND	ND	NA	NA	10.10	8.70	1.40	NA
MW-13	01/09/1995	ND	ND	ND	ND	ND	ND	NA	NA	10.10	7.35	2.75	NA
MW-13	04/11/1995	ND	320	ND	ND	ND	ND	NA	NA	10.10	5.50	4.60	NA
MW-13	07/18/1995	ND	ND	ND	ND	ND	ND	NA	NA	10.10	6.63	3.47	NA
MW-13	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	10.10	8.12	1.98	NA
MW-13	01/09/1996	<50	ND	<0.5	<0.5	<0.5	<0.5	ND	NA	10.10	7.74	2.36	NA
MW-13	04/02/1996	<50	NA	<0.5	<0.5	<0.5	<0.5	<2.5	NA	10.10	6.30	3.80	NA
MW-13	10/03/1996	<50	<50	<0.5	<0.5	<0.5	<0.5	<2.5	NA	10.10	6.50	3.60	3.0
MW-13	04/03/1997	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	10.10	7.58	2.52	2.0
MW-13	10/08/1997	<50	<50	<0.50	<0.50	<0.50	<0.50	<2.5	NA	10.10	8.17	1.93	1.0
MW-13	06/10/1998	NA	NA	NA	NA	NA	NA	NA	NA	10.10	7.54	2.56	NA
MW-13	12/30/1998	<50.0	69.0	<0.500	<0.500	<0.500	<0.500	<2.00	NA	10.10	6.91	3.19	1.1/0.8

Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8020

MTBE = methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

TOB = Top of Wellbox

GW = Groundwater

DO = Dissolved Oxygen

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

D = Duplicate sample

#/# = Dissolved oxygen reading; pre-purge/post-purge.

Notes:

a = Chromatogram pattern indicates an unidentified hydrocarbon.

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January 12, 1999

Peggy Penner
Sequoia - RC (Subbed In)
680 Chesapeake Dr.
Redwood City, CA 94063

RE: Blaine/Shell/P812444

Dear Peggy Penner

Enclosed are the results of analyses for sample(s) received by the laboratory on December 31, 1998. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Matt Sakai
Project Manager

CA ELAP Certificate Number 2245

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Sequoia - RC (Subbed In)	Project:	Blaine/Shell	Sampled:	12/30/98
680 Chesapeake Dr.	Project Number:	9812H69/H70	Received:	12/31/98
Redwood City, CA 94063	Project Manager:	Peggy Penner	Reported:	1/12/99

ANALYTICAL REPORT FOR P812444

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW 1	P812444-01	Water	12/30/98
MW 2	P812444-02	Water	12/30/98
MW 3	P812444-03	Water	12/30/98
MW 4	P812444-04	Water	12/30/98
MW 6	P812444-05	Water	12/30/98
MW 8	P812444-06	Water	12/30/98
MW 9	P812444-07	Water	12/30/98
MW 10	P812444-08	Water	12/30/98
MW 11	P812444-09	Water	12/30/98
MW 12	P812444-10	Water	12/30/98
MW 13	P812444-11	Water	12/30/98

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Sequoia - RC (Subbed In)	Project:	Blaine/Shell	Sampled: 12/30/98
680 Chesapeake Dr.	Project Number:	9812H69/H70	Received: 12/31/98
Redwood City, CA 94063	Project Manager:	Peggy Penner	Reported: 1/12/99

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW 1			**P812444-01**				**Water**	
Gasoline	9010085	1/7/99	1/7/99		2500	**6930**	ug/l	
Benzene	"	"	"		25.0	**714**	"	
Toluene	"	"	"		25.0	**52.7**	"	
Ethylbenzene	"	"	"		25.0	**243**	"	
Xylenes (total)	"	"	"		25.0	ND	"	
Methyl tert-butyl ether	"	"	"		100	**9000**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*88.7*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*87.7*	"	
MW 2			**P812444-02**				**Water**	
Gasoline	9010085	1/7/99	1/7/99		5000	ND	ug/l	
Benzene	"	"	"		50.0	ND	"	
Toluene	"	"	"		50.0	ND	"	
Ethylbenzene	"	"	"		50.0	ND	"	
Xylenes (total)	"	"	"		50.0	ND	"	
Methyl tert-butyl ether	"	"	"		200	**12100**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*84.0*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*89.7*	"	
MW 3			**P812444-03**				**Water**	
Gasoline	9010085	1/7/99	1/7/99		250	ND	ug/l	
Benzene	"	"	"		2.50	ND	"	
Toluene	"	"	"		2.50	ND	"	
Ethylbenzene	"	"	"		2.50	ND	"	
Xylenes (total)	"	"	"		2.50	ND	"	
Methyl tert-butyl ether	"	"	"		10.0	**1010**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*90.0*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*88.7*	"	
MW 4			**P812444-04**				**Water**	
Gasoline	9010085	1/7/99	1/7/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	**0.580**	"	
Methyl tert-butyl ether	"	"	"		2.00	**7.33**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*95.0*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*98.0*	"	
MW 6			**P812444-05**				**Water**	
Gasoline	9010085	1/7/99	1/7/99		250	**260**	ug/l	

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Sequoia - RC (Subbed In)	Project:	Blaine/Shell	Sampled: 12/30/98
680 Chesapeake Dr.	Project Number:	9812H69/H70	Received: 12/31/98
Redwood City, CA 94063	Project Manager:	Peggy Penner	Reported: 1/12/99

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW 6 (continued)			**P812444-05**				**Water**	
Benzene	9010085	1/7/99	1/7/99		2.50	ND	ug/l	
Toluene	"	"	"		2.50	ND	"	
Ethylbenzene	"	"	"		2.50	ND	"	
Xylenes (total)	"	"	"		2.50	ND	"	
Methyl tert-butyl ether	"	"	"		10.0	**909**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*99.3*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*97.0*	"	
MW 8			**P812444-06**				**Water**	
Gasoline	9010085	1/7/99	1/7/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*102*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*93.3*	"	
MW 9			**P812444-07**				**Water**	
Gasoline	9010085	1/7/99	1/7/99		2500	**30100**	ug/l	
Benzene	"	"	"		25.0	**8500**	"	
Toluene	"	"	"		25.0	**166**	"	
Ethylbenzene	"	"	"		25.0	**603**	"	
Xylenes (total)	"	"	"		25.0	**3340**	"	
Methyl tert-butyl ether	"	"	"		100	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*98.3*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*94.7*	"	
MW 10			**P812444-08**				**Water**	
Gasoline	9010085	1/7/99	1/7/99		1000	**17800**	ug/l	
Benzene	"	"	"		10.0	**6000**	"	
Toluene	"	"	"		10.0	**136**	"	
Ethylbenzene	"	"	"		10.0	**344**	"	
Xylenes (total)	"	"	"		10.0	**639**	"	
Methyl tert-butyl ether	"	"	"		40.0	**1250**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*98.3*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*94.3*	"	
MW 11			**P812444-09**				**Water**	
Gasoline	9010085	1/7/99	1/7/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	

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Sequoia - RC (Subbed In)	Project:	Blaine/Shell	Sampled: 12/30/98
680 Chesapeake Dr.	Project Number:	9812H69/H70	Received: 12/31/98
Redwood City, CA 94063	Project Manager:	Peggy Penner	Reported: 1/12/99

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW 11 (continued)			**P812444-09**				**Water**	
Toluene	9010085	1/7/99	1/7/99		0.500	ND	ug/l	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*97.7*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*98.0*	"	
MW 12			**P812444-10**				**Water**	
Gasoline	9010085	1/7/99	1/7/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*99.7*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*98.0*	"	
MW 13			**P812444-11**				**Water**	
Gasoline	9010085	1/7/99	1/7/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*99.7*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*95.7*	"	

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Sequoia - RC (Subbed In)	Project:	Blaine/Shell	Sampled: 12/30/98
680 Chesapeake Dr.	Project Number:	9812H69/H70	Received: 12/31/98
Redwood City, CA 94063	Project Manager:	Peggy Penner	Reported: 1/12/99

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW 1			**P812444-01**				**Water**	
Diesel	9010003	1/3/99	1/11/99		0.0500	**1.54**	mg/l	1
Motor Oil	"	"	"		0.250	ND	"	
Surrogate: o-Terphenyl	"	"	"	-		*72.7*	%	
MW 2			**P812444-02**				**Water**	
Diesel	9010003	1/3/99	1/11/99		0.0500	**1.05**	mg/l	
Motor Oil	"	"	"		0.250	ND	"	
Surrogate: o-Terphenyl	"	"	"	-		*77.0*	%	
MW 3			**P812444-03**				**Water**	
Diesel	9010003	1/3/99	1/11/99		0.0500	**0.108**	mg/l	2
Motor Oil	"	"	"		0.250	ND	"	
Surrogate: o-Terphenyl	"	"	"	-		*82.2*	%	
MW 4			**P812444-04**				**Water**	
Diesel	9010003	1/3/99	1/11/99		0.0500	**0.0941**	mg/l	2
Motor Oil	"	"	"		0.250	ND	"	
Surrogate: o-Terphenyl	"	"	"	-		*84.8*	%	
MW 6			**P812444-05**				**Water**	
Diesel	9010003	1/3/99	1/11/99		0.0500	**0.528**	mg/l	1,2
Motor Oil	"	"	"		0.250	ND	"	
Surrogate: o-Terphenyl	"	"	"	-		*75.9*	%	
MW 8			**P812444-06**				**Water**	
Diesel	9010003	1/3/99	1/11/99		0.0500	ND	mg/l	
Motor Oil	"	"	"		0.250	ND	"	
Surrogate: o-Terphenyl	"	"	"	-		*78.4*	%	
MW 9			**P812444-07**				**Water**	
Diesel	9010003	1/3/99	1/11/99		0.0500	**1.90**	mg/l	1,2
Motor Oil	"	"	"		0.250	ND	"	
Surrogate: o-Terphenyl	"	"	"	-		*76.9*	%	
MW 10			**P812444-08**				**Water**	
Diesel	9010003	1/3/99	1/11/99		0.0500	**2.82**	mg/l	
Motor Oil	"	"	"		0.250	ND	"	
Surrogate: o-Terphenyl	"	"	"	-		*66.6*	%	
MW 11			**P812444-09**				**Water**	
Diesel	9010003	1/3/99	1/11/99		0.0500	**0.0662**	mg/l	2

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Sequoia - RC (Subbed In)	Project:	Blaine/Shell	Sampled: 12/30/98
680 Chesapeake Dr.	Project Number:	9812H69/H70	Received: 12/31/98
Redwood City, CA 94063	Project Manager:	Peggy Penner	Reported: 1/12/99

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW 11 (continued)			**P812444-09**				**Water**	
Motor Oil	9010003	1/3/99	1/11/99		0.250	ND	mg/l	
Surrogate: o-Terphenyl	"	"	"	-		*81.9*	*%*	
MW 12			**P812444-10**				**Water**	
Diesel	9010003	1/3/99	1/11/99		0.0500	ND	mg/l	
Motor Oil	"	"	"		0.250	ND	"	
Surrogate: o-Terphenyl	"	"	"	-		*74.9*	*%*	
MW 13			**P812444-11**				**Water**	
Diesel	9010003	1/3/99	1/11/99		0.0500	**0.0690**	mg/l	3
Motor Oil	"	"	"		0.250	ND	"	
Surrogate: o-Terphenyl	"	"	"	-		*80.7*	*%*	

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Sequoia - RC (Subbed In)	Project:	Blaine/Shell	Sampled: 12/30/98
680 Chesapeake Dr.	Project Number:	9812H69/H70	Received: 12/31/98
Redwood City, CA 94063	Project Manager:	Peggy Penner	Reported: 1/12/99

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9010085	**Date Prepared: 1/7/99**					**Extraction Method: EPA 5030 waters**				
Blank	**9010085-BLK1**									
Gasoline	1/7/99			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**2.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*303*	"	*65.0-135*	*101*			
Surrogate: 4-Bromofluorobenzene	"	*300*		*290*	"	*65.0-135*	*96.7*			
LCS	**9010085-BS1**									
Gasoline	1/7/99	1000		1020	ug/l	65.0-135	102			
Surrogate: 4-Bromofluorobenzene	"	*300*		*290*	"	*65.0-135*	*96.7*			
Matrix Spike	**9010085-MS1**		**P901018-01**							
Gasoline	1/7/99	1000	ND	943	ug/l	65.0-135	**94.3**			
Surrogate: 4-Bromofluorobenzene	"	*300*		*277*	"	*65.0-135*	*92.3*			
Matrix Spike Dup	**9010085-MSD1**		**P901018-01**							
Gasoline	1/7/99	1000	ND	973	ug/l	65.0-135	**97.3**	20.0	**3.13**	
Surrogate: 4-Bromofluorobenzene	"	*300*		*266*	"	*65.0-135*	*88.7*			

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Sequoia - RC (Subbed In)	Project:	Blaine/Shell	Sampled: 12/30/98
680 Chesapeake Dr.	Project Number:	9812H69/H70	Received: 12/31/98
Redwood City, CA 94063	Project Manager:	Peggy Penner	Reported: 1/12/99

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9010003	**Date Prepared: 1/3/99**				**Extraction Method: EPA 3520B**					
Blank	**9010003-BLK1**									
JET-A	1/8/99			**ND**	mg/l					
Diesel	"			**ND**	"	**0.0500**				
Motor Oil	"			**ND**	"	**0.250**				
Surrogate: o-Terphenyl	"	*0.100*		*0.0830*	"		*83.0*			
LCS	**9010003-BS1**									
Diesel	1/8/99	1.00		0.785	mg/l		78.5			
Surrogate: o-Terphenyl	"	*0.100*		*0.0770*	"		*77.0*			
LCS Dup	**9010003-BSD1**									
Diesel	1/8/99	1.00		0.826	mg/l		82.6		5.09	
Surrogate: o-Terphenyl	"	*0.100*		*0.0784*	"		*78.4*			

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Sequoia - RC (Subbed In)	Project:	Blaine/Shell	Sampled:	12/30/98
680 Chesapeake Dr.	Project Number:	9812H69/H70	Received:	12/31/98
Redwood City, CA 94063	Project Manager:	Peggy Penner	Reported:	1/12/99

Notes and Definitions

#	Note
1	Results in the diesel organics range are primarily due to overlap from a gasoline range product.
2	Hydrocarbon pattern present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
3	Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 285 Hegenberger Rd.

QC Sample Group: 9812H69-01-06

Reported: Jan 24, 1999

QUALITY CONTROL DATA REPORT

Matrix:	Liquid						
Method:	EPA 300.0						
Analyst:	G. Fish						
ANALYTE	Fluoride	Chloride	Nitrite	Bromide	Nitrate	Phosphate	Sulfate
QC Batch #:	1231983000ACA						
Sample No.:	9812H69-1						
Date Prepared:	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98
Date Analyzed:	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98
Instrument I.D.#:	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1
Sample Conc., mg/L:	N.D.	88	N.D.	8.3	N.D.	N.D.	6.8
Conc. Spiked, mg/L:	100	100	100	100	100	100	100
Matrix Spike, mg/L:	110	190	98	93	93	84	96
% Recovery:	110	102	98	85	93	84	89
Matrix Spike Duplicate, mg/L:	110	190	98	93	93	87	96
% Recovery:	110	102	98	85	93	87	89
Relative % Difference:	0.0	0.0	0.0	0.0	0.0	3.5	0.0
RPD Control Limits:							

LCS Batch#:	LCS1231983000ACA						
Date Prepared:	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98
Date Analyzed:	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98
Instrument I.D.#:	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1
Conc. Spiked, mg/L:	10	10	10	10	10	10	10
LCS Recovery, mg/L:	11	9.4	9.3	9.1	9.2	9.4	9.3
LCS % Recovery:	107	94	93	91	92	94	93

Percent Recovery Control Limits:

MS/MSD	75-125	75-125	75-125	75-125	75-125	75-125	75-125
LCS	90-110	90-110	90-110	90-110	90-110	90-110	90-110

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Kenwan Kimyai
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 285 Hegenberger Rd.

QC Sample Group: 9812H70-09-10

Reported: Jan 24, 1999

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 300.0
Analyst: G. Fish

ANALYTE	Fluoride	Chloride	Nitrite	Bromide	Nitrate	Phosphate	Sulfate
QC Batch #: 0105993000ACC							
Sample No.:	9812H70-9						
Date Prepared:	1/5/99	1/5/99	1/5/99	1/5/99	1/5/99	1/5/99	1/5/99
Date Analyzed:	1/5/99	1/5/99	1/5/99	1/5/99	1/5/99	1/5/99	1/5/99
Instrument I.D.#:	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1
Sample Conc., mg/L:	N.D.	7100	N.D.	84	N.D.	N.D.	1000
Conc. Spiked, mg/L:	1000	1000	1000	1000	1000	1000	1000
Matrix Spike, mg/L:	1100	8300	990	940	940	880	2100
% Recovery:	110	120	99	86	94	88	110
Matrix Spike Duplicate, mg/L:	1100	8300	1000	940	930	910	2100
% Recovery:	110	120	100	86	93	91	110
Relative % Difference:	0.0	0.0	1.0	0.0	1.1	3.4	0.0
RPD Control Limits:							
LCS Batch#: LCS0105993000ACB							
Date Prepared:	1/5/99	1/5/99	1/5/99	1/5/99	1/5/99	1/5/99	1/5/99
Date Analyzed:	1/5/99	1/5/99	1/5/99	1/5/99	1/5/99	1/5/99	1/5/99
Instrument I.D.#:	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1
Conc. Spiked, mg/L:	10	10	10	10	10	10	10
LCS Recovery, mg/L:	11	9.4	10	9.3	9.6	9.6	9.4
LCS % Recovery:	108	94	100	93	96	96	94
Percent Recovery Control Limits:							
MS/MSD	75-125	75-125	75-125	75-125	75-125	75-125	75-125
LCS	90-110	90-110	90-110	90-110	90-110	90-110	90-110

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Kasyan Kimyai
Project Manager

Please Note:
. The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 285 Hegenberger Rd.

QC Sample Group: 9812H70-07-08, 11

Reported: Jan 24, 1999

QUALITY CONTROL DATA REPORT

Matrix:	Liquid						
Method:	EPA 300.0						
Analyst:	G. Fish						
ANALYTE	Fluoride	Chloride	Nitrite	Bromide	Nitrate	Phosphate	Sulfate
QC Batch #:	1231983000ACA						
Sample No.:	9812H69-1						
Date Prepared:	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98
Date Analyzed:	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98
Instrument I.D.#:	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1
Sample Conc., mg/L:	N.D.	88	N.D.	8.3	N.D.	N.D.	6.8
Conc. Spiked, mg/L:	100	100	100	100	100	100	100
Matrix Spike, mg/L:	110	190	98	93	93	84	96
% Recovery:	110	102	98	85	93	84	89
Matrix Spike Duplicate, mg/L:	110	190	98	93	93	87	96
% Recovery:	110	102	98	85	93	87	89
Relative % Difference:	0.0	0.0	0.0	0.0	0.0	3.5	0.0
RPD Control Limits:							

LCS Batch#:	LCS1231983000ACA						
Date Prepared:	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98
Date Analyzed:	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98	12/31/98
Instrument I.D.#:	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1	INAC1
Conc. Spiked, mg/L:	10	10	10	10	10	10	10
LCS Recovery, mg/L:	11	9.4	9.3	9.1	9.2	9.4	9.3
LCS % Recovery:	107	94	93	91	92	94	93

Percent Recovery Control Limits:

MS/MSD	75-125	75-125	75-125	75-125	75-125	75-125	75-125
LCS	90-110	90-110	90-110	90-110	90-110	90-110	90-110

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Kamran Kimyai
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Sequoia - RC (Subbed In)	Project:	Blaine/Shell	Sampled:	12/30/98
680 Chesapeake Dr.	Project Number:	9812H69/H70	Received:	1/20/99
Redwood City, CA 94063	Project Manager:	Peggy Penner	Reported:	1/21/99

ANALYTICAL REPORT FOR P901285

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW 2	P901285-01	Water	12/30/98

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Sequoia - RC (Subbed In)	Project:	Blaine/Shell	Sampled: 12/30/98
680 Chesapeake Dr.	Project Number:	9812H69/H70	Received: 1/20/99
Redwood City, CA 94063	Project Manager:	Peggy Penner	Reported: 1/21/99

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW 2			**P901285-01**				**Water**	**1,2**
Methyl tert-butyl ether	9010332	1/20/99	1/20/99		250	**15300**	ug/l	
Surrogate: Dibromofluoromethane	"	"	"	*86.0-118*		*98.4*	%	

Sequoia Analytical

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Sequoia - RC (Subbed In)	Project:	Blaine/Shell	Sampled: 12/30/98
680 Chesapeake Dr.	Project Number:	9812H69/H70	Received: 1/20/99
Redwood City, CA 94063	Project Manager:	Peggy Penner	Reported: 1/21/99

Volatile Organic Compounds by EPA Method 8260B/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9010332	**Date Prepared: 1/19/99**					**Extraction Method: EPA 5030 waters**				
Blank	**9010332-BLK1**									
Methyl tert-butyl ether	1/19/99			**ND**	ug/l	**0.500**				
Surrogate: Dibromofluoromethane	"	*5.00*		*4.90*	"	*86.0-118*	*98.0*			
Blank	**9010332-BLK2**									
Methyl tert-butyl ether	1/20/99			**ND**	ug/l	**0.500**				
Surrogate: Dibromofluoromethane	"	*5.00*		*4.67*	"	*86.0-118*	*93.4*			
LCS	**9010332-BS1**									
Methyl tert-butyl ether	1/19/99	5.00		4.99	ug/l	70.0-130	99.8			
Surrogate: Dibromofluoromethane	"	*5.00*		*4.88*	"	*86.0-118*	*97.6*			
LCS	**9010332-BS2**									
Methyl tert-butyl ether	1/20/99	5.00		4.73	ug/l	70.0-130	94.6			
Surrogate: Dibromofluoromethane	"	*5.00*		*4.53*	"	*86.0-118*	*90.6*			
Matrix Spike	**9010332-MS1**		**P901125-01**							
Methyl tert-butyl ether	1/19/99	5.00	ND	5.56	ug/l	70.0-130	**111**			
Surrogate: Dibromofluoromethane	"	*5.00*		*5.03*	"	*86.0-118*	*101*			
Matrix Spike Dup	**9010332-MSD1**		**P901125-01**							
Methyl tert-butyl ether	1/19/99	5.00	ND	5.42	ug/l	70.0-130	**108**	15.0	**2.74**	
Surrogate: Dibromofluoromethane	"	*5.00*		*4.91*	"	*86.0-118*	*98.2*			

Sequoia Analytical

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Sequoia - RC (Subbed In)	Project:	Blaine/Shell	Sampled:	12/30/98
680 Chesapeake Dr.	Project Number:	9812H69/H70	Received:	1/20/99
Redwood City, CA 94063	Project Manager:	Peggy Penner	Reported:	1/21/99

Notes and Definitions

#	Note
1	This sample was analyzed outside the EPA recommended holding time.
2	Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

P812444

SUB-CHAIN OF CUSTODY

SEQUOIA ANALYTICAL
680 CHESAPEAKE DRIVE
REDWOOD CITY, CA 94063
TEL415-364-9600 FAX415-364-9233

PROJECT SUBBED TO: Pet

TAT REQUESTED: [ ] 24H [ ] 48H [ ] 72H [ ] 5D [ ] 10D

DUE DATE: 1/12/99

REPORT TO: P-Penner

WORKORDER #: 9812H69 / H70

PROJECT NAME: Blaine

ANALYSIS REQUESTED

FRACTION NUMBER	SAMPLE DESCRIPTION	MATRIX	NUMBER OF CONT.	TYPE CONT.	SAMPLING TIME/DATE	TPHg/BTEX/MTBE	TPH Diesel / TPH Motor Oil						REMARKS
01	MW1	L	6	(3x) VOA's (3x) 1L Amb	12/30/98	X	X	P812444-01					Run 2x 5
02	2	↓	↓	↓	↓	↓	↓	-02					TPHg/BTEX +
03	3							-03					MTBE are not
04	4							-04					in the same vary.
05	6							-05					
06	8							-06					
07	9							-07					Chromatograms
08	10							-08					for TPHD &
09	11							-09					TPHMO
10	12							-10					
11	13	↓	↓	↓	↓	↓	↓	-11					

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELINQUISHED FROM SEQUOIA BY: [signature]	12/31/98		RECEIVED BY:		
RELINQUISHED BY: [signature]	12/31/98	1125	RECEIVED BY: [signature]	12/31/98	1125
RELINQUISHED BY:			RECEIVED BY:		

SAMPLE CONDITION?

TEMP?

COOLER CUSTODY SEALS INTACT [ ] NOT INTACT [ ]

COOLER TEMPERATURE 6 °C

Sequoia Analytical

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January 21, 1999

Peggy Penner
Sequoia - RC (Subbed In)
680 Chesapeake Dr.
Redwood City, CA 94063

RE: Blaine/Shell/P901285

Dear Peggy Penner

Enclosed are the results of analyses for sample(s) received by the laboratory on January 20, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Matt Sakai
Project Manager

CA ELAP Certificate Number 2245

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Project: Shell 285 Hegenberger Rd.

Enclosed are the results from samples received at Sequoia Analytical on December 30, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9812H69 -01	LIQUID, MW1	12/30/98	Nitrate as Nitrate
9812H69 -01	LIQUID, MW1	12/30/98	Sulfate
9812H69 -01	LIQUID, MW1 Dissolved	12/30/98	Ferrous Iron
9812H69 -02	LIQUID, MW2	12/30/98	Nitrate as Nitrate
9812H69 -02	LIQUID, MW2	12/30/98	Sulfate
9812H69 -02	LIQUID, MW2 Dissolved	12/30/98	Ferrous Iron
9812H69 -03	LIQUID, MW3	12/30/98	Nitrate as Nitrate
9812H69 -03	LIQUID, MW3	12/30/98	Sulfate
9812H69 -03	LIQUID, MW3 Dissolved	12/30/98	Ferrous Iron
9812H69 -04	LIQUID, MW4	12/30/98	Nitrate as Nitrate
9812H69 -04	LIQUID, MW4	12/30/98	Sulfate
9812H69 -04	LIQUID, MW4 Dissolved	12/30/98	Ferrous Iron
9812H69 -05	LIQUID, MW6	12/30/98	Nitrate as Nitrate
9812H69 -05	LIQUID, MW6	12/30/98	Sulfate

SEQUOIA ANALYTICAL

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112
Attention: Fran Thie

Project: Shell 285 Hegenberger Rd.

Enclosed are the results from samples received at Sequoia Analytical on December 30, 1998. The requested analyses are listed below:

SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
9812H70 -07	LIQUID, MW9	12/30/98	Nitrate as Nitrate
9812H70 -07	LIQUID, MW9	12/30/98	Sulfate
9812H70 -07	LIQUID, MW9 Dissolved	12/30/98	Ferrous Iron
9812H70 -08	LIQUID, MW10	12/30/98	Nitrate as Nitrate
9812H70 -08	LIQUID, MW10	12/30/98	Sulfate
9812H70 -08	LIQUID, MW10 Dissolved	12/30/98	Ferrous Iron
9812H70 -09	LIQUID, MW11	12/30/98	Nitrate as Nitrate
9812H70 -09	LIQUID, MW11	12/30/98	Sulfate
9812H70 -09	LIQUID, MW11 Dissolved	12/30/98	Ferrous Iron
9812H70 -10	LIQUID, MW12	12/30/98	Nitrate as Nitrate
9812H70 -10	LIQUID, MW12	12/30/98	Sulfate
9812H70 -10	LIQUID, MW12 Dissolved	12/30/98	Ferrous Iron
9812H70 -11	LIQUID, MW13	12/30/98	Nitrate as Nitrate
9812H70 -11	LIQUID, MW13	12/30/98	Sulfate
9812H70 -11	LIQUID, MW13 Dissolved	12/30/98	Ferrous Iron

Please contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on this project.

Very truly yours,

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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SAMPLE #	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
812H69 -05	LIQUID, MW6 Dissolved	12/30/98	Ferrous Iron
812H69 -06	LIQUID, MW8	12/30/98	Nitrate as Nitrate
812H69 -06	LIQUID, MW8	12/30/98	Sulfate
812H69 -06	LIQUID, MW8 Dissolved	12/30/98	Ferrous Iron

lease contact me if you have any questions. In the meantime, thank you for the opportunity to work with you on is project.

ery truly yours,

EQUOIA ANALYTICAL

eggy Penner
roject Manager

Sequoia Analytical

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Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell 285 Hegenberger Rd.

Lab Proj. ID: 9812H69

Sampled: 12/30/98
Received: 12/30/98
Analyzed: see below

Reported: 01/24/99

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9812H69-01				
Sample Desc : **LIQUID,MW1**				
Nitrate as Nitrate	mg/L	12/31/98	1.0	N.D.
Sulfate	**mg/L**	**12/31/98**	**1.0**	**6.8**
Ferrous Iron	**mg/L**	**01/06/99**	**0.010**	**9.2**
Lab No: 9812H69-02				
Sample Desc : **LIQUID,MW2**				
Nitrate as Nitrate	mg/L	12/31/98	1.0	N.D.
Sulfate	**mg/L**	**12/31/98**	**1.0**	**84**
Ferrous Iron	**mg/L**	**01/06/99**	**0.010**	**7.6**
Lab No: 9812H69-03				
Sample Desc : **LIQUID,MW3**				
Nitrate as Nitrate	mg/L	12/31/98	1.0	N.D.
Sulfate	**mg/L**	**12/31/98**	**1.0**	**21**
Ferrous Iron	**mg/L**	**01/06/99**	**0.010**	**2.1**
Lab No: 9812H69-04				
Sample Desc : **LIQUID,MW4**				
Nitrate as Nitrate	mg/L	12/31/98	1.0	N.D.
Sulfate	**mg/L**	**12/31/98**	**1.0**	**9.6**
Ferrous Iron	**mg/L**	**01/06/99**	**0.010**	**1.6**
Lab No: 9812H69-05				
Sample Desc : **LIQUID,MW6**				
Nitrate as Nitrate	mg/L	12/31/98	1.0	N.D.
Sulfate	**mg/L**	**12/31/98**	**1.0**	**120**
Ferrous Iron	**mg/L**	**01/06/99**	**0.010**	**0.46**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

for

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112

Attention: Fran Thie

Client Proj. ID: Shell 285 Hegenberger Rd.

Lab Proj. ID: 9812H70

Sampled: 12/30/98
Received: 12/30/98
Analyzed: see below

Reported: 01/24/99

LABORATORY ANALYSIS

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Lab No: 9812H70-07				
Sample Desc : **LIQUID,MW9**				
Nitrate as Nitrate	mg/L	12/31/98	1.0	N.D.
Sulfate	**mg/L**	**12/31/98**	**1.0**	**6.4**
Ferrous Iron	**mg/L**	**01/06/99**	**0.010**	**9.3**
Lab No: 9812H70-08				
Sample Desc : **LIQUID,MW10**				
Nitrate as Nitrate	mg/L	12/31/98	1.0	N.D.
Sulfate	**mg/L**	**12/31/98**	**1.0**	**8.0**
Ferrous Iron	**mg/L**	**01/06/99**	**0.010**	**17**
Lab No: 9812H70-09				
Sample Desc : **LIQUID,MW11**				
Nitrate as Nitrate	mg/L	12/31/98	1.0	N.D.
Sulfate	**mg/L**	**01/05/99**	**10**	**1000**
Ferrous Iron	**mg/L**	**01/06/99**	**0.010**	**0.21**
Lab No: 9812H70-10				
Sample Desc : **LIQUID,MW12**				
Nitrate as Nitrate	**mg/L**	**12/31/98**	**1.0**	**6.1**
Sulfate	**mg/L**	**01/05/99**	**10**	**1500**
Ferrous Iron	**mg/L**	**01/06/99**	**0.010**	**0.06**
Lab No: 9812H70-11				
Sample Desc : **LIQUID,MW13**				
Nitrate as Nitrate	**mg/L**	**12/31/98**	**1.0**	**7.2**
Sulfate	**mg/L**	**12/31/98**	**1.0**	**230**
Ferrous Iron	**mg/L**	**01/06/99**	**0.010**	**0.031**

nalytes reported as N.D. were not present above the stated limit of detection.

EQUOIA ANALYTICAL - ELAP #1210

for

eggy Penner
roject Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 285 Hegenberger Rd.	Sampled: 12/30/98
1680 Rogers Avenue		Received: 12/30/98
San Jose, CA 95112	Lab Proj. ID: 9812H69	Analyzed: see below
Attention: Fran Thie		Reported: 01/24/99

LABORATORY ANALYSIS

Lab No: 9812H69-06
Sample Desc : **LIQUID,MW8**

Analyte	Units	Date Analyzed	Detection Limit	Sample Results
Nitrate as Nitrate	**mg/L**	**12/31/98**	**1.0**	**12**
Sulfate	**mg/L**	**12/31/98**	**1.0**	**54**
Ferrous Iron	**mg/L**	**01/06/99**	**0.010**	**0.031**

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services, Inc.
1680 Rogers Ave.
San Jose, CA 95112
Attention: Fran Thie

Client Project ID: Shell 285 Hegenberger Rd.
Matrix: Liquid
Work Order #: 9812H69 -01-06; 9812H70-07-11
Reported: Jan 25, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Beryllium	Cadmium	Chromium	Nickel
QC Batch#:	ME0104996010MDF	ME0104996010MDF	ME0104996010MDF	ME0104996010MDF
Analy. Method:	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Prep. Method:	EPA 3010	EPA 3010	EPA 3010	EPA 3010
Analyst:	C. Medefesser	C. Medefesser	C. Medefesser	C. Medefesser
MS/MSD #:	9812H8801	9812H8801	9812H8801	9812H8801
Sample Conc.:	N.D.	N.D.	0.014	1.9
Prepared Date:	1/4/99	1/4/99	1/4/99	1/4/99
Analyzed Date:	1/5/99	1/5/99	1/5/99	1/5/99
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
Result:	1.1	1.1	1.1	3.0
MS % Recovery:	110	110	109	110
Dup. Result:	1.1	1.1	1.1	2.9
MSD % Recov.:	110	110	109	100
RPD:	0.0	0.0	0.0	3.4
RPD Limit:	0-20	0-20	0-20	0-20
LCS #:	LCS010499	LCS010499	LCS010499	LCS010499
Prepared Date:	1/4/99	1/4/99	1/4/99	1/4/99
Analyzed Date:	1/5/99	1/5/99	1/5/99	1/5/99
Instrument I.D.#:	MTJA5	MTJA5	MTJA5	MTJA5
Conc. Spiked:	1.0 mg/L	1.0 mg/L	1.0 mg/L	1.0 mg/L
LCS Result:	1.0	1.0	1.0	1.0
LCS % Recov.:	100	100	100	100
MS/MSD Control Limits	80-120	80-120	80-120	80-120
LCS Control Limits	80-120	80-120	80-120	80-120

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services	Client Proj. ID: Shell 285 Hegenberger Rd.	Received: 12/30/98
1680 Rogers Avenue		
San Jose, CA 95112	Lab Proj. ID: 9812H69	Reported: 01/24/99
Attention: Fran Thie		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 25 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

Analysis Note:
For samples 9812H69-01-06, Gas and Diesel were analyzed at Sequoia Analytical-Petaluma. (See attached report).

For sample 9812H69-02, MTBE by EPA 8260 was analyzed at Sequoia Analytical-Petaluma. (See attached report).

Report Note:
Laboratory project numbers 9812H69 and 9812H70 represent samples for project Shell 285 Hegenberger Rd. sampled on December 30, 1998.

SEQUOIA ANALYTICAL

Peggy Penner
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Blaine Tech Services 1680 Rogers Avenue San Jose, CA 95112 Attention: Fran Thie	Client Proj. ID: Shell 285 Hegenberger Rd. Lab Proj. ID: 9812H70	Received: 12/30/98 Reported: 01/24/99

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 27 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

Analysis Note:
For samples 9812H70-07-11, Gas and Diesel were analyzed at Sequoia Analytical-Petaluma. (See attached report).

Report Note:
Laboratory project numbers 9812H69 and 9812H70 represent samples for project Shell 285 Hegenberger Rd. sampled on December 30, 1998.

SEQUOIA ANALYTICAL

for

Peggy Penner
Project Manager

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 981230X3

Date: 1 of 2
Page

Site Address: 285 Hegenberger Rd., Oakland, CA

WIC#: 204-5508-5504

Shell Engineer: Alex Perez
Phone No.: (510) 675-6168
Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie
Phone No.: (408) 573-0555
Fax #: 573-7771

Comments:

Sampled by: [signature]

Printed Name: BROCKS TRYCO

LAB: SEQ 9812H69/H70

CHECK ONE (1) BOX ONLY		CT/DT
G.W. Monitoring	[X]	4461
Site Investigation	[ ]	4441
Soil Classify/Disposal	[ ]	4442
Water Classify/Disposal	[ ]	4443
Soil/Air Rem. or Sys. O & M	[ ]	4452
Water Rem. or Sys. O & M	[ ]	4453
Other	[ ]	

TURN AROUND TIME
- 24 hours [ ]
- 48 hours [ ]
- 16 days [X] (Normal)
- Other [ ] ______

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: ______

Analysis Required

Sample ID	Date	DATE (~~Sludge~~)	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 & MTBE	SULFATE EPA 300.0	NITRATE EPA 300.0	FERROUS IRON 200.7 (~~Asbestos~~)	MOTOR OIL (~~Container Size~~)	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW 1	8	12/30		X		8		X				X	X	X	X	X			01	FERROUS IRON NEEDS TO BE LAB FILTERED AND PRESERVED
MW 2	8	↓		↓		↓		↓				↓	↓	↓	↓	↓			02	↓
MW 3	8	↓		↓		↓		↓				↓	↓	↓	↓	↓			03	↓
MW 4	8	↓		↓		↓		↓				↓	↓	↓	↓	↓			04	↓
MW 6	8	↓		↓		↓		↓				↓	↓	↓	↓	↓			05	↓
MW 8	8	↓		↓		↓		↓				↓	↓	↓	↓	↓			06	↓
MW 9	8			↓		↓		↓				↓	↓	↓	↓	↓			07	↓
MW 10	8			↓				↓				↓	↓	↓	↓	↓			08	↓

Relinquished By (signature):	Printed Name:	Date/Time	Received (signature):	Printed Name:	Date/Time
[signature]	B. TARON	Date: 12/30 Time: 1515			Date: Time:
		Date: Time:			Date: Time:
		Date: Time:	[signature]	Aura Delma	Date: 12/30/98 Time: 1559

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 98123043

Date:
Page 2 of 2

Site Address: 285 Hegenberger Rd., Oakland, CA

WIC#: 204-5508-5504

Shell Engineer: Alex Perez — Phone No.: (510) 675-6168 Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie — Phone No.: (408) 573-0555 Fax #: 573-7771

Comments:

Sampled by:

Printed Name: BROOKS TAYLOR

LAB: SEQ

CHECK ONE (1) BOX ONLY		CT/DT	TURN AROUND TIME	
G.W. Monitoring	X	4461	24 hours	☐
Site Investigation	☐	4441	48 hours	☐
Soil Classify/Disposal	☐	4442	15 days	X (Normal)
Water Classify/Disposal	☐	4443	Other	☐
Soil/Air Rem. or Sys. O & M	☐	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.	
Water Rem. or Sys. O & M	☐	4453		
Other	☐			

UST AGENCY: 98121469 / 470

Analysis Required

Sample ID	Date	Date Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 + MTBE	SULFATE EPA 300.0	NITRATE EPA 300.0	Asbestos FERROUS IRON 310.7	Container Size MOTOR OIL	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW11	8	12/30				8		X				X	X	X	X	X			04	
MW12	8	↓				↓		↓				X	X	X	X	X			01	
MW13	8	↓				↓		↓				X	X	X	X	X			11	↓

Relinquished By (signature):	Printed Name: BROOKS TAYLOR	Date: 12/30 Time: 815	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: 12/30/94 Time: 1915

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

End Of Chain of Custody

Revised COC

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 981230X3

Date: 1 of 2
Page

Site Address: 285 Hegenberger Rd., Oakland, CA

WIC#: 204-5508-5504

Shell Engineer: Alex Perez — Phone No.: (510) 675-6168, Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie — Phone No.: (408) 573-0555, Fax #: 573-7771

Comments:

Sampled by: [signature]

Printed Name: BROOKS TRYON

LAB: SEQ 9812H67 | H70

Analysis Required: TPH (EPA 8015 Mod. Gas); TPH (EPA 8015 Mod. Diesel); BTEX (EPA 8020/602); Volatile Organics (EPA 8240); Test for Disposal; Combination TPH 8015 & BTEX 8020 & MTBE; SULFATE EPA 300.0; NITRATE EPA 300.0; FERROUS IRON 200.7; MOTOR OIL; Preparation Used; Composite Y/N

CHECK ONE (1) BOX ONLY — CT/DT:
- G.W. Monitoring [X] 4461
- Site Investigation [ ] 4441
- Soil Classify/Disposal [ ] 4442
- Water Classify/Disposal [ ] 4443
- Soil/Air Rem. or Sys. O & M [ ] 4451
- Water Rem. or Sys. O & M [ ] 4453
- Other [ ]

TURN AROUND TIME:
- 24 hours [ ]
- 48 hours [ ]
- 15 days [X] (Normal)
- Other [ ]

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY:

Sample ID	Date	Date Sampled	Soil	Water	Air	No. of conts.	TPH Gas	TPH Diesel	BTEX	Volatile Organics	Test for Disposal	Combination TPH/BTEX/MTBE	SULFATE EPA 300.0	NITRATE EPA 300.0	FERROUS IRON 200.7	MOTOR OIL	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW 1	8	12/30		X		8		X				X	X	X	X	X			01	FERROUS IRON NEEDS TO BE LAB FILTERED AND PRESERVED
MW 2	8																		02	
MW 3	8																		03	
MW 4	8																		04	Confirm highest MTBE by 8260
MW 6	8																		05	
MW 8	8																		06	
MW 9	8																		07	
MW 10	8																		08	

Relinquished By (signature)	Printed Name	Date/Time	Received (signature)	Printed Name	Date/Time
[signature]	B. Tryon	Date: 12/30/98 Time: 1515			Date: Time:
		Date: Time:			Date: Time:
		Date: Time:	[signature]	Aura Delma	Date: 12/30/98 Time: 1515

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 981230 Y3

Date:
Page 2 of 2

Site Address: 285 Hegenberger Rd., Oakland, CA

WIC#: 204-5508-5504

Shell Engineer: Alex Perez
Phone No.: (510) 675-6168
Fax #: 675-6172

Consultant Name & Address: Blaine Tech Services, Inc. 1680 Rogers Ave., San Jose, CA 95112

Consultant Contact: Fran Thie
Phone No.: (408) 573-0555
Fax #: 573-7771

Comments:

Sampled by: [signature]

Printed Name: BROOKS TAYLOR

LAB: SEQ

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring [X]	4461	24 hours [ ]
Site Investigation [ ]	4441	48 hours [ ]
Soil Classify/Disposal [ ]	4442	15 days [X] (Normal)
Water Classify/Disposal [ ]	4443	Other [ ]
Soil/Air Rem. or Sys. O & M [ ]	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M [ ]	4453	
Other [ ]		

UST AGENCY:

Analysis Required

Sample ID	Date	Sludge (DATE)	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020 #MTBE	SULFATE EPA 300.0	NITRATE EPA 300.0	FERROUS IRON 300.7	MOTOR OIL	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
W-11	8	12/30				8		X				X	X	X	X	X				↓
W-12	8	↓				↓		↓				X	X	X	X	X				↓
W-13	8	↓				↓		↓				X	X	X	X	X				↓
																				Confirm highest MTBE by 8260

Relinquished By (signature)	Printed Name	Date/Time	Received (signature)	Printed Name	Date/Time
[signature]	BROOKS TAYLOR	Date: 12/30 Time: 1415			Date: Time:
		Date: Time:			Date: Time:
		Date: Time:	[signature]	[signature]	Date: 12/30/98 Time: 1915

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS